

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032512.D
 Acq On : 20 Sep 2018 18:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 11:20:00 AM

Quant Time: Sep 21 02:48:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:48:59 2018
 QLast Update : Fri Sep 21 02:33:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1530542	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3556275	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3629289m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2752289	10.21	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.10	85	1221557	6.239	ppbv	100
3) Chlorodifluoromethane	3.03	51	1179967	8.517	ppbv	97
4) Chloromethane	3.19	50	703736	8.389	ppbv	99
5) Vinyl Chloride	3.31	62	666090	8.044	ppbv	98
6) Bromomethane	3.54	94	399187	9.184	ppbv	99
7) Chloroethane	3.62	64	251755	8.784	ppbv	100
8) Dichlorotetrafluoroethane	3.24	85	1401246	8.064	ppbv	98
9) Propene	3.06	41	640127	11.454	ppbv	99
10) Heptane	8.28	43	2137373	10.660	ppbv	99
11) Trichlorofluoromethane	4.03	101	1418254	8.034	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1234132	10.317	ppbv	99
13) Ethanol	3.67	45	151371	8.689	ppbv	98
14) Bromoethene	3.81	108	481636	9.503	ppbv	99
15) Acetone	3.93	43	1256389	9.116	ppbv	99
16) 1,3-Butadiene	3.38	39	523826	8.077	ppbv	97
17) tert-Butyl alcohol	4.38	59	207234	9.770	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	614342	11.237	ppbv	97
19) Isopropyl Alcohol	4.05	45	904890	10.008	ppbv #	97
20) Methylene Chloride	4.44	84	546917	10.407	ppbv	99
21) Allyl Chloride	4.51	41	1067846	11.665	ppbv	100
22) trans-1,2-Dichloroethene	4.99	96	575395	9.700	ppbv	98
23) Vinyl Acetate	5.18	43	2661128	11.648	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1833400	9.739	ppbv	99
25) Ethyl Acetate	5.80	43	3243729	9.966	ppbv	100
26) Hexane	5.81	57	1485782	10.195	ppbv	98
27) Carbon Disulfide	4.65	76	1558439	11.584	ppbv	100
28) Methyl tert-Butyl Ether	5.14	73	2076966	11.607	ppbv	99
29) Chloroform	5.88	83	2123809	9.558	ppbv	98
30) Cyclohexane	7.28	84	1305470	12.233	ppbv	100
31) cis-1,2-Dichloroethene	5.67	61	1453917	11.017	ppbv	98
32) 1,1,1-Trichloroethane	6.66	97	2198292	10.613	ppbv	97
34) 2-Butanone	5.36	43	2162770	9.156	ppbv	99
35) Carbon Tetrachloride	7.17	117	2159752	9.036	ppbv	99
36) Benzene	7.04	78	3021802	9.985	ppbv	99
37) 1,2-Dichloroethane	6.45	62	1701178	9.173	ppbv	99
38) Trichloroethene	8.00	130	1071401	9.319	ppbv	98
39) 1,2-Dichloropropane	7.78	63	1304165	10.072	ppbv	96
40) 1,4-Dioxane	7.99	88	430318	11.077	ppbv #	1
41) Tetrahydrofuran	6.18	42	1382531	10.751	ppbv	99
42) Bromodichloromethane	7.96	83	2473151	9.668	ppbv	99
43) Methyl Methacrylate	8.17	69	1322377	10.299	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032512.D
 Acq On : 20 Sep 2018 18:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

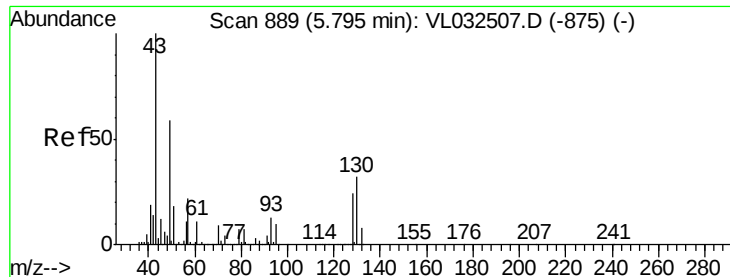
Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 11:20:00 AM

Quant Time: Sep 21 02:48:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:48:59 2018
 QLast Update : Fri Sep 21 02:33:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	5568411	9.517	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1803724	13.129	ppbv	98
46) cis-1,3-Dichloropropene	8.88	75	2023786	11.528	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1354751	9.841	ppbv	99
48) Dibromochloromethane	10.49	129	2189958	11.486	ppbv	100
49) Bromoform	13.25	173	1646145	9.933	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	3442010	9.673	ppbv	99
51) 2-Hexanone	10.31	43	3031295	13.225	ppbv #	99
52) Tetrachloroethene	11.41	164	959637	10.226	ppbv	96
53) Toluene	9.98	91	3860409	12.203	ppbv	99
54) 1,2-Dibromoethane	10.80	107	2016588	10.910	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.32	131	1452459	8.877	ppbv #	60
57) Chlorobenzene	12.34	112	2595130	8.947	ppbv	98
58) Ethyl Benzene	12.90	91	4827528	11.115	ppbv	99
59) m/p-Xylene	13.19	91	7785760m	20.107	ppbv	
60) o-Xylene	13.89	91	3764832	9.898	ppbv	100
61) Styrene	13.72	104	2845173	11.555	ppbv	99
62) Isopropylbenzene	14.87	105	5347442	10.001	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	2795980	8.222	ppbv	100
64) n-propylbenzene	15.76	120	1363653	9.756	ppbv	97
65) tert-Butylbenzene	16.95	119	4404225	9.559	ppbv	100
66) Benzyl Chloride	17.19	91	2678275	10.435	ppbv	100
67) sec-Butylbenzene	17.50	105	6498771	9.379	ppbv	100
69) p-Isopropyltoluene	17.86	119	5150288	9.591	ppbv	100
70) n-Butylbenzene	18.75	91	5587805	9.179	ppbv	99
71) 2-Chlorotoluene	15.66	91	4181525	10.237	ppbv	99
72) 4-Ethyltoluene	16.04	105	4311167	10.382	ppbv	100
73) 1,3,5-Trimethylbenzene	16.20	105	4095785	9.845	ppbv	95
74) 1,2,4-Trimethylbenzene	16.97	105	4065751	8.939	ppbv	99
75) 1,3-Dichlorobenzene	17.21	146	2243575	8.313	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2220005	8.866	ppbv	99
77) 1,2-Dichlorobenzene	18.03	146	2209937	8.487	ppbv	100
78) Hexachloro-1,3-Butadiene	23.58	225	1278073	13.137	ppbv	100
79) Naphthalene	22.45	128	3439607	9.300	ppbv	99
80) Naphthalene, 2-methyl-	25.14	142	1151697	11.703	ppbv	99
81) 1,2,4-Trichlorobenzene	22.18	180	1629625m	8.748	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1530542

Ion Ratio Lower Upper

49 100

128 41.6 20.7 62.1

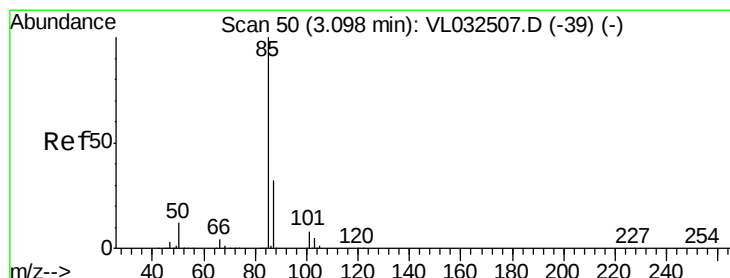
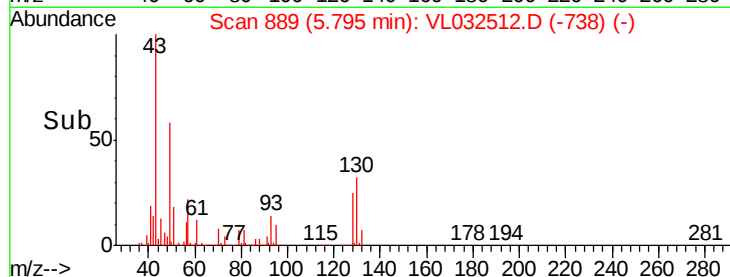
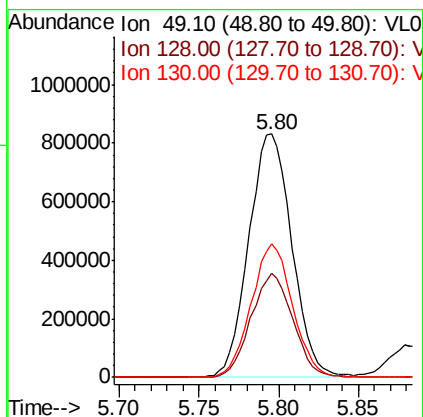
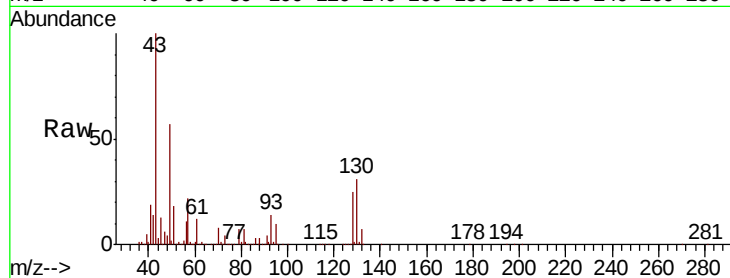
130 53.0 26.6 79.7

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#2

Dichlorodifluoromethane

Concen: 6.239 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032512.D

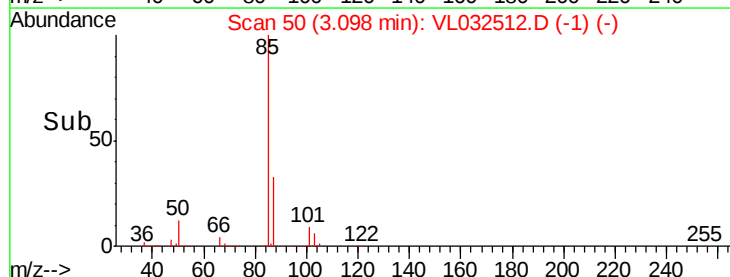
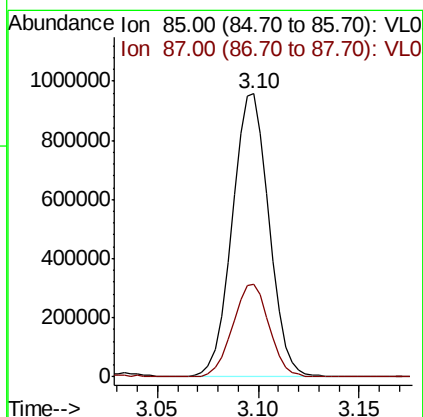
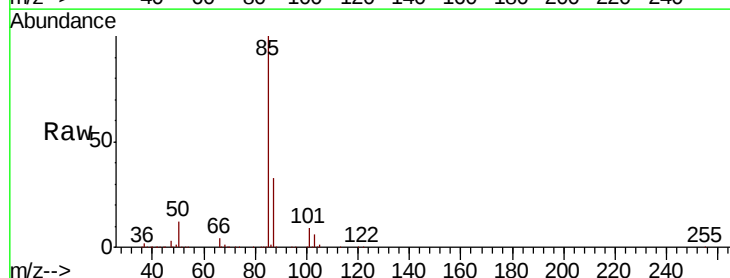
Acq: 20 Sep 2018 18:22

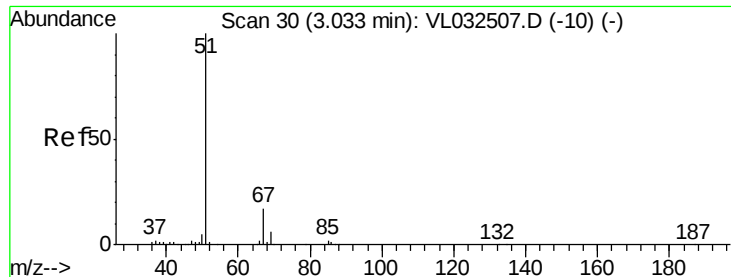
Tgt Ion: 85 Resp: 1221557

Ion Ratio Lower Upper

85 100

87 32.9 26.2 39.4





#3

Chlorodifluoromethane

Concen: 8.517 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1179967

Ion Ratio Lower Upper

51 100

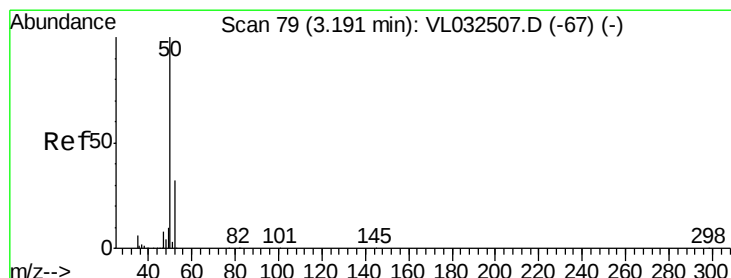
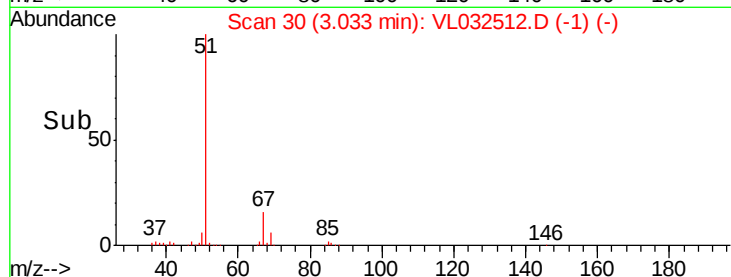
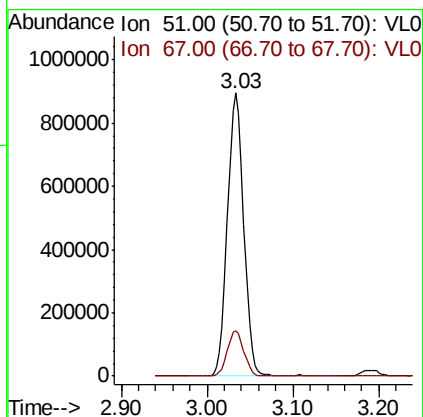
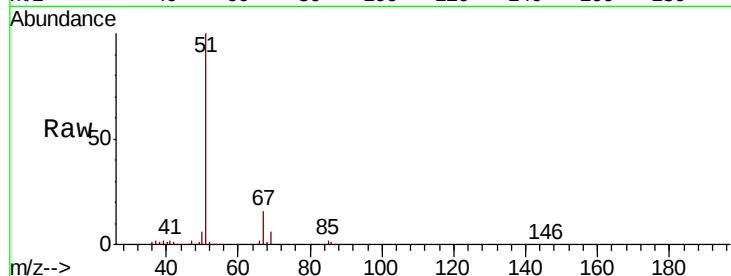
67 16.2 13.8 20.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#4

Chloromethane

Concen: 8.389 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032512.D

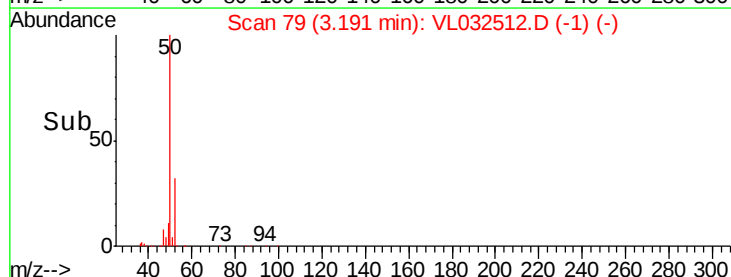
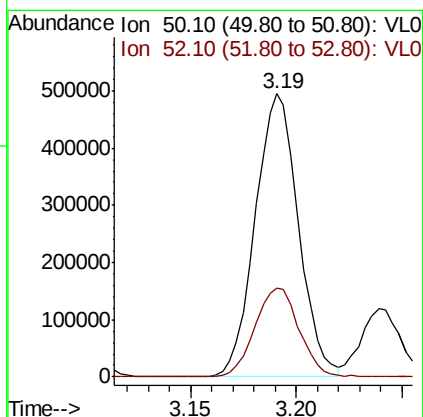
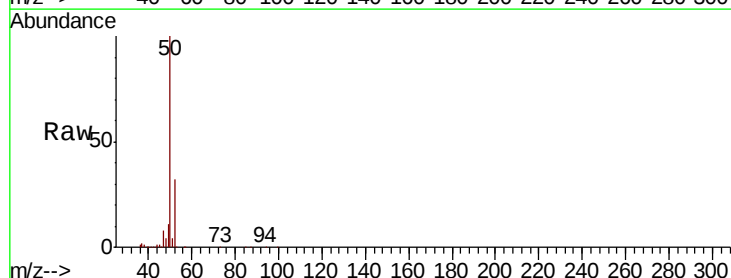
Acq: 20 Sep 2018 18:22

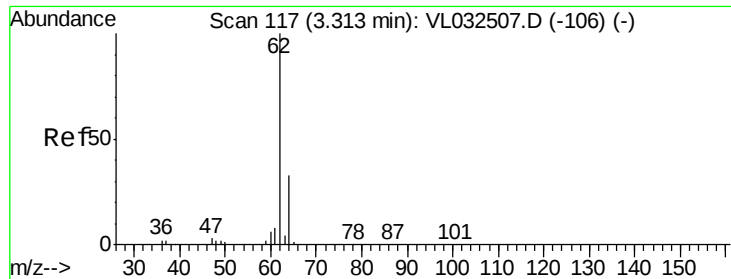
Tgt Ion: 50 Resp: 703736

Ion Ratio Lower Upper

50 100

52 31.6 25.6 38.4





#5

Vinyl Chloride

Concen: 8.044 ppbv

RT: 3.31 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 666090

Ion Ratio Lower Upper

62 100

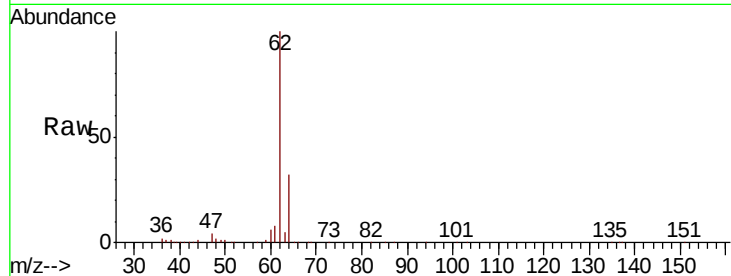
64 32.4 25.0 37.6

Manual Integrations

APPROVED

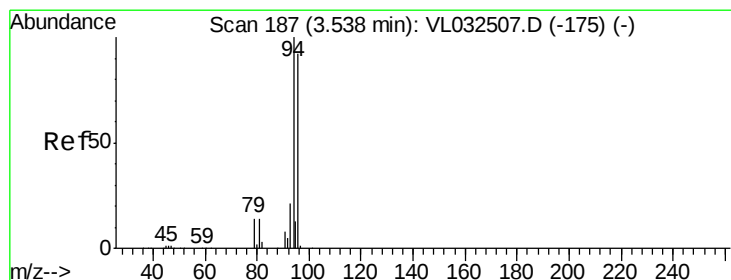
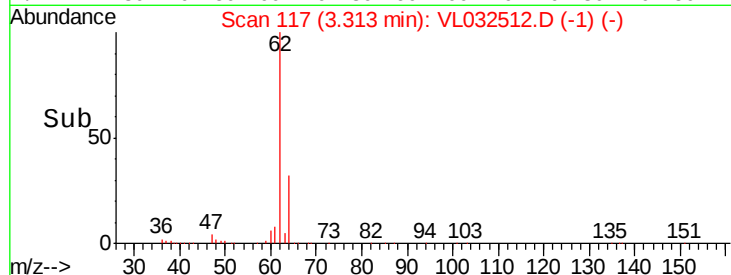
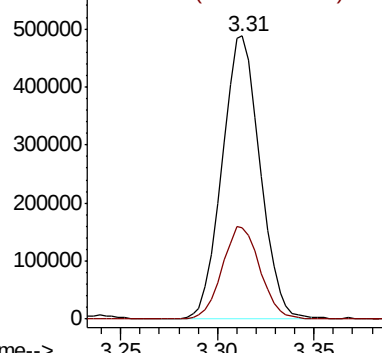
MMDadoda

9/24/2018 11:20:00 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.184 ppbv

RT: 3.54 min Scan# 187

Delta R.T. -0.01 min

Lab File: VL032512.D

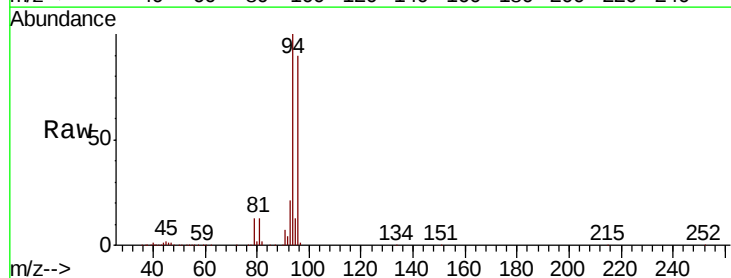
Acq: 20 Sep 2018 18:22

Tgt Ion: 94 Resp: 399187

Ion Ratio Lower Upper

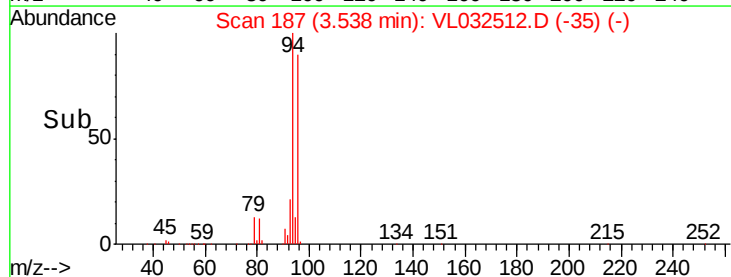
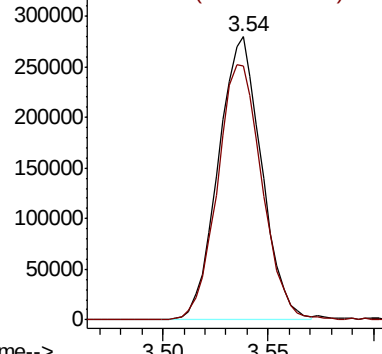
94 100

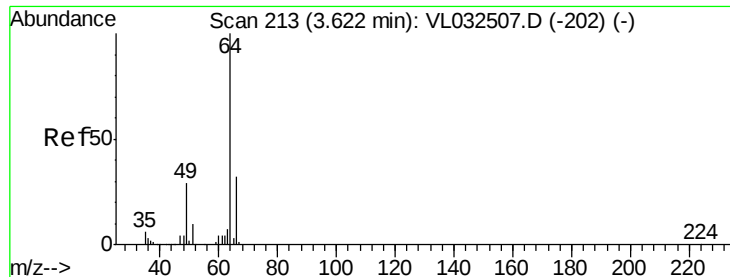
96 89.7 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.784 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 251755

Ion Ratio Lower Upper

64 100

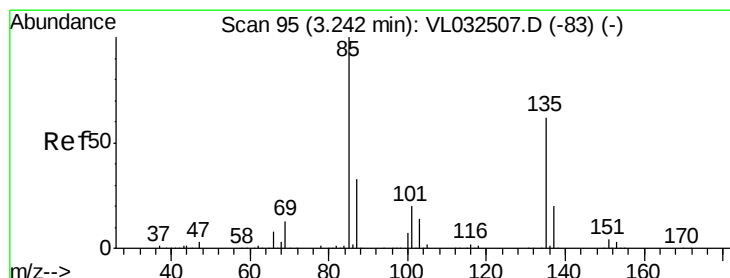
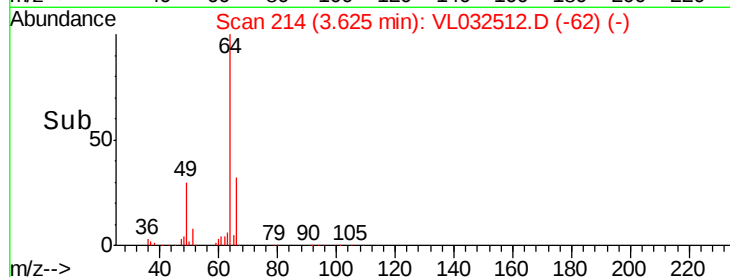
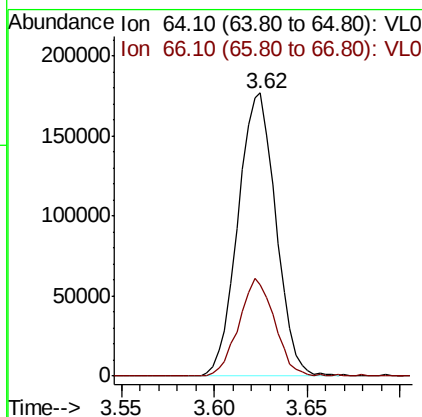
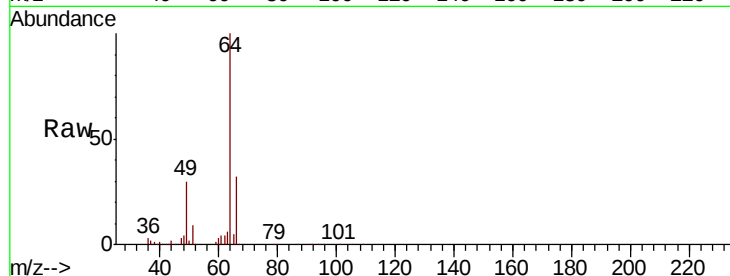
66 32.4 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#8

Dichlorotetrafluoroethane

Concen: 8.064 ppbv

RT: 3.24 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL032512.D

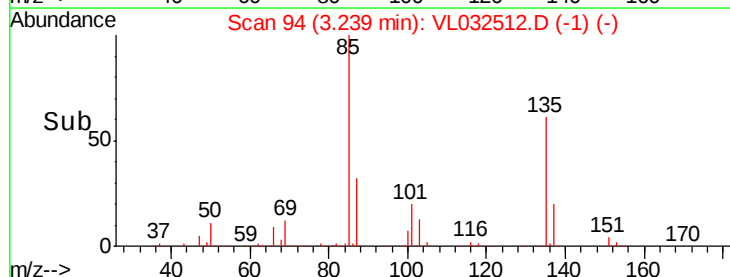
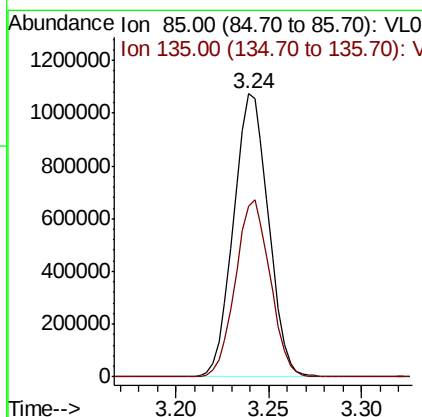
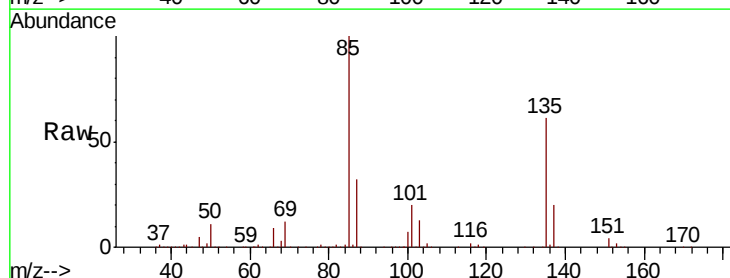
Acq: 20 Sep 2018 18:22

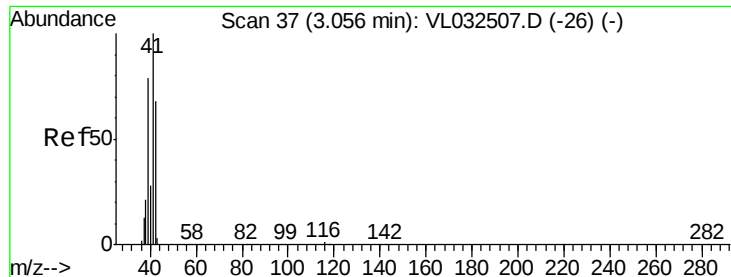
Tgt Ion: 85 Resp: 1401246

Ion Ratio Lower Upper

85 100

135 62.2 48.6 72.8





#9

Propene

Concen: 11.454 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 640127

Ion Ratio Lower Upper

41 100

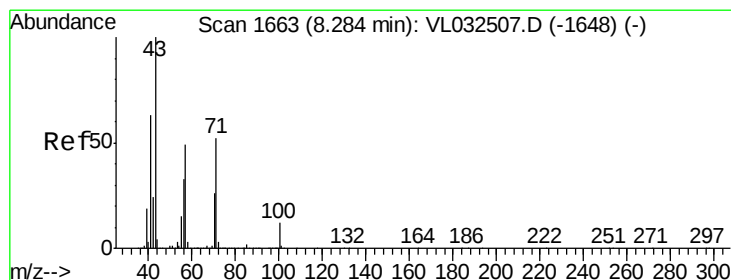
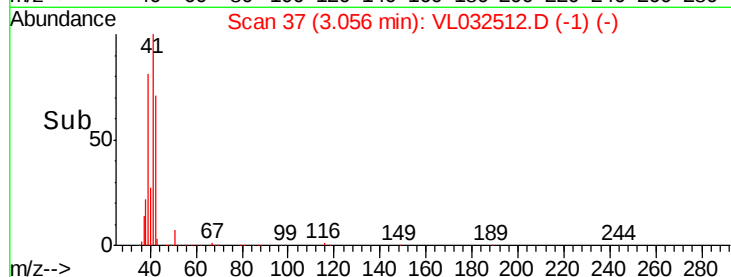
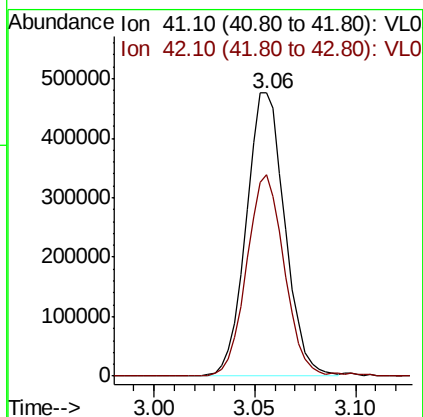
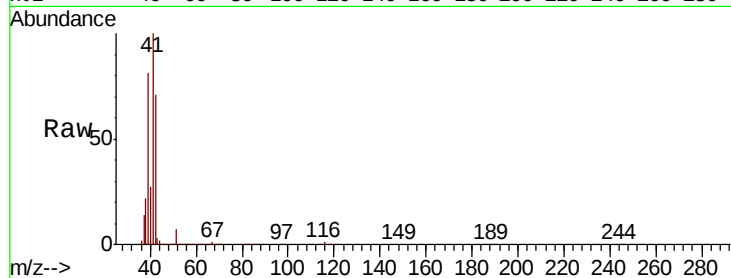
42 69.6 56.6 84.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#10

Heptane

Concen: 10.660 ppbv

RT: 8.28 min Scan# 1662

Delta R.T. -0.02 min

Lab File: VL032512.D

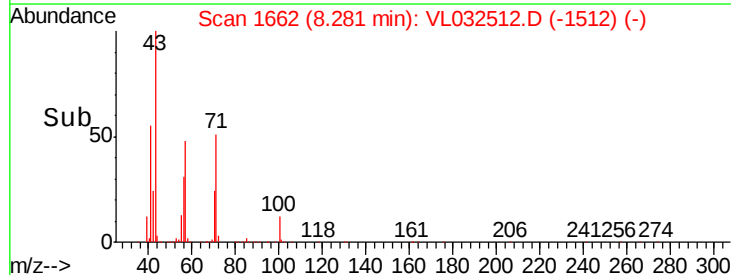
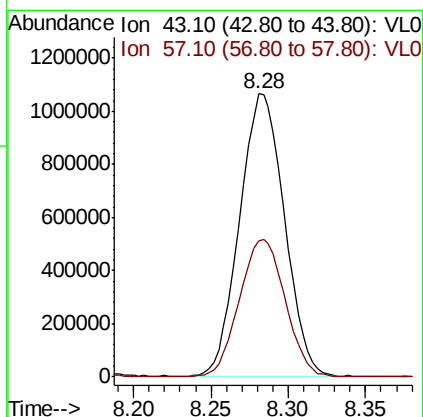
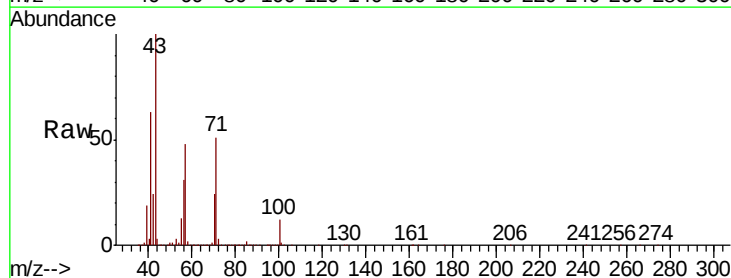
Acq: 20 Sep 2018 18:22

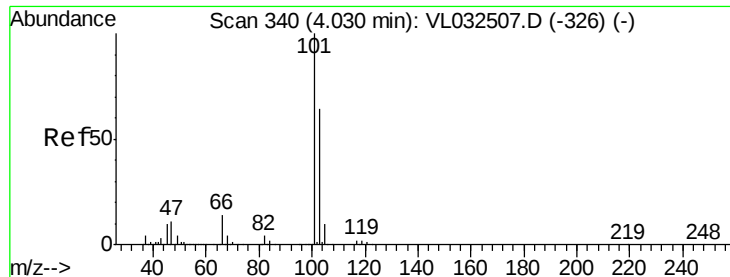
Tgt Ion: 43 Resp: 2137373

Ion Ratio Lower Upper

43 100

57 50.1 39.6 59.4





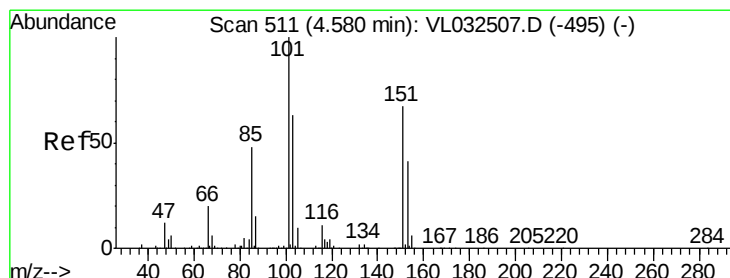
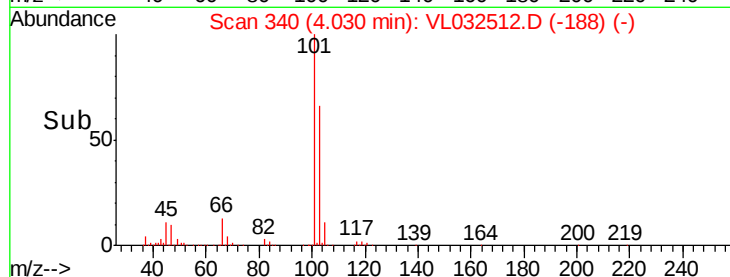
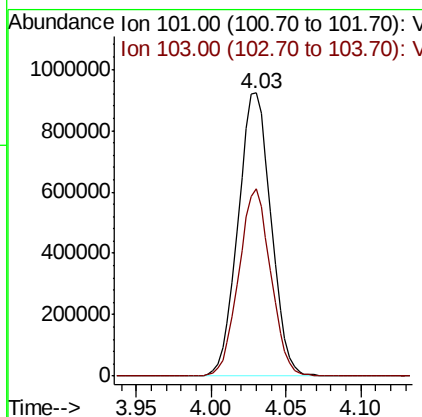
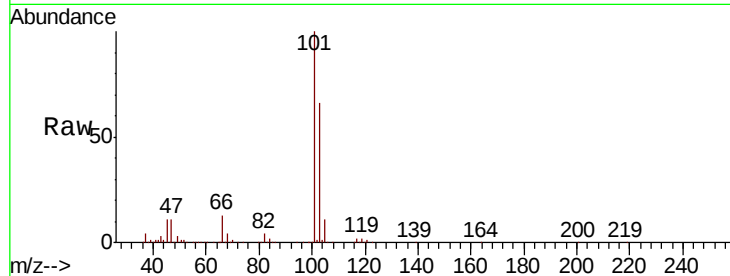
#11
 Trichlorofluoromethane
 Concen: 8.034 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1418254
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.8 79.2

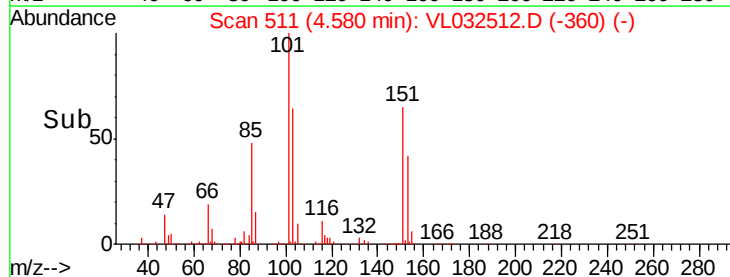
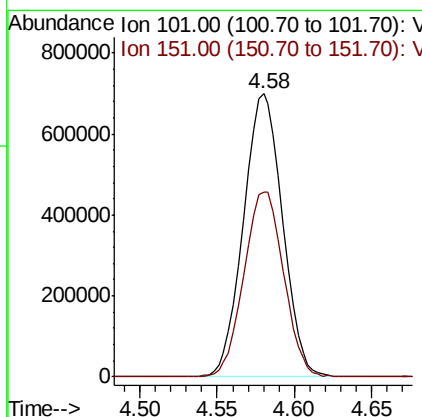
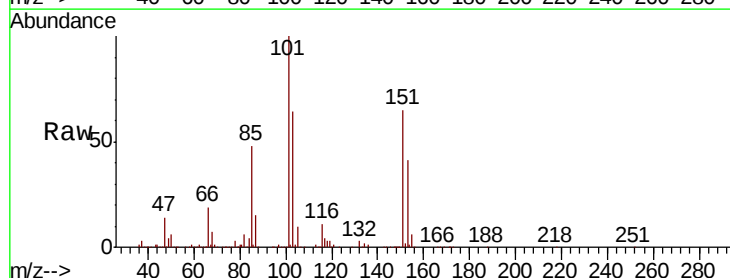
Manual Integrations
 APPROVED

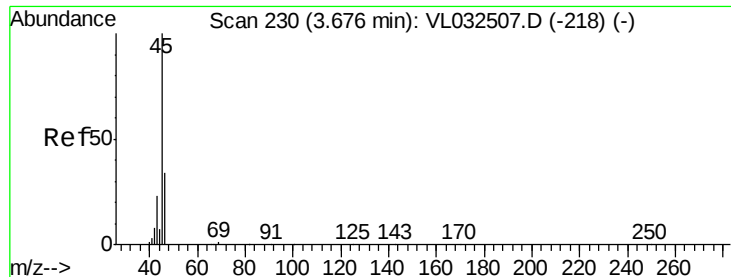
MMDadoda
 9/24/2018 11:20:00 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.317 ppbv
 RT: 4.58 min Scan# 511
 Delta R.T. -0.01 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion:101 Resp: 1234132
 Ion Ratio Lower Upper
 101 100
 151 66.4 52.6 78.8





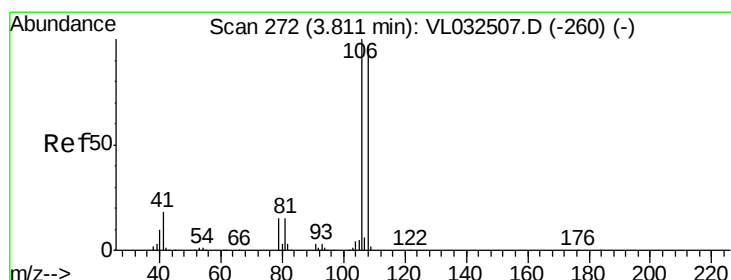
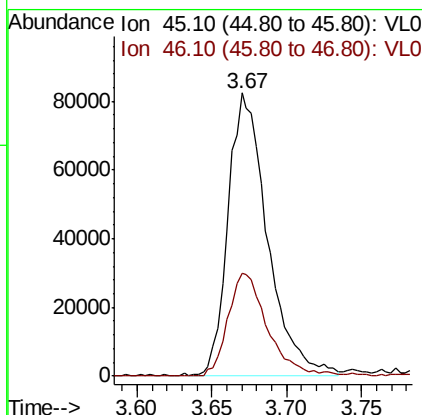
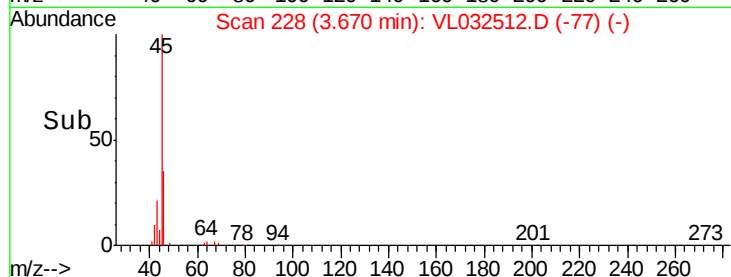
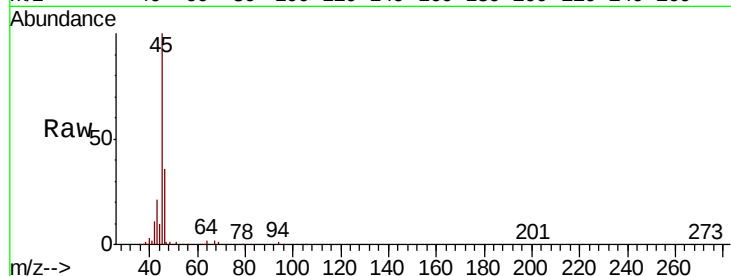
#13
Ethanol
Concen: 8.689 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
151371	100	36.9		14.2	56.8

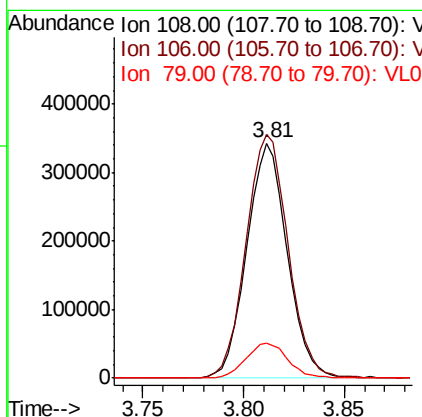
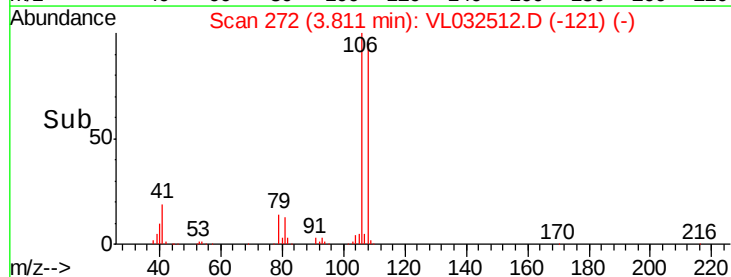
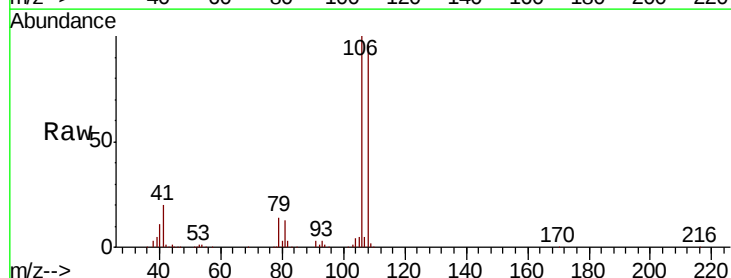
Manual Integrations
APPROVED

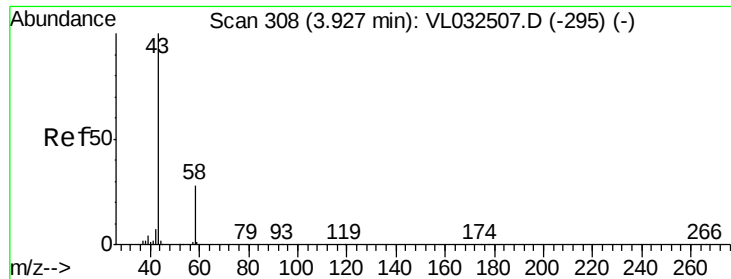
MMDadoda
9/24/2018 11:20:00 AM



#14
Bromoethene
Concen: 9.503 ppbv
RT: 3.81 min Scan# 272
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion	108	106	79	Ratio	Lower	Upper
481636	100	108.3	15.6		85.5	128.3
					13.0	19.6





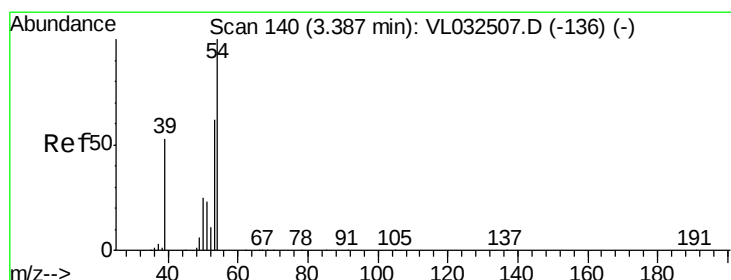
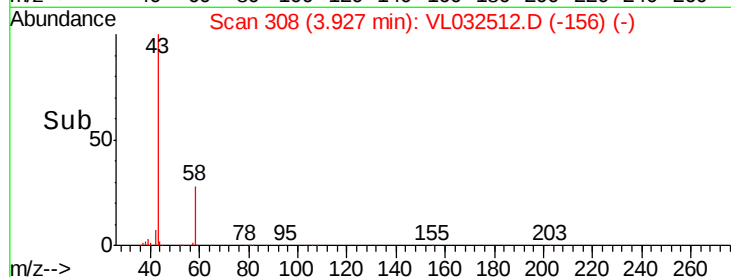
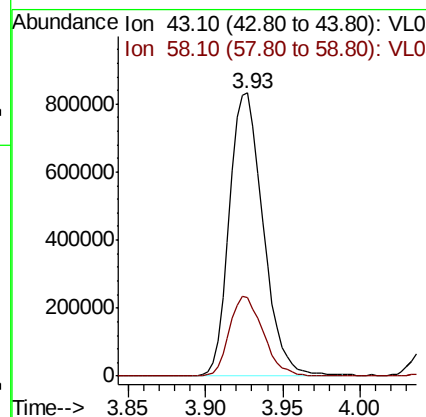
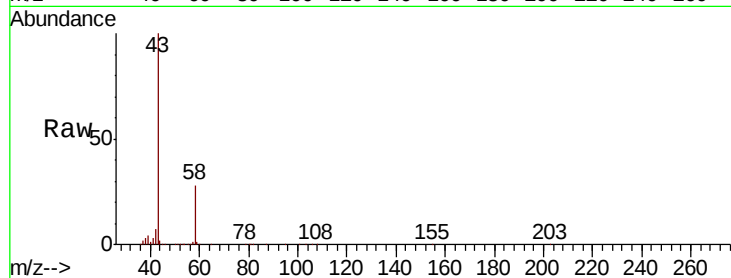
#15
Acetone
Concen: 9.116 ppbv
RT: 3.93 min Scan# 308
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1256389
Ion Ratio Lower Upper
43 100
58 28.5 22.6 33.8

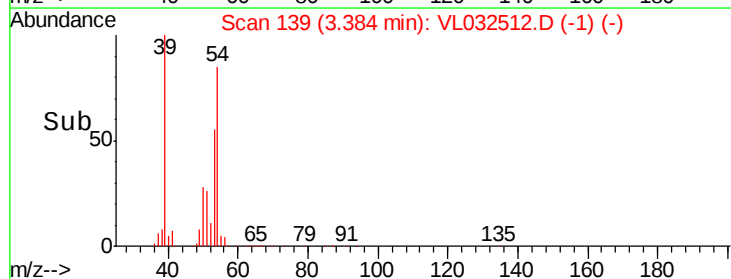
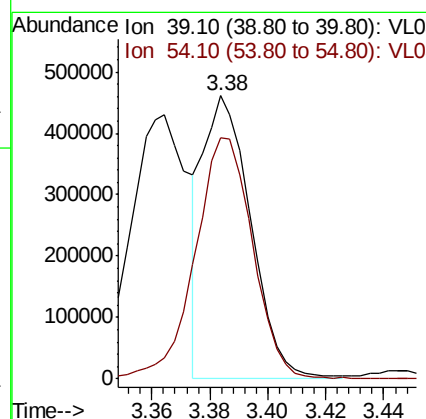
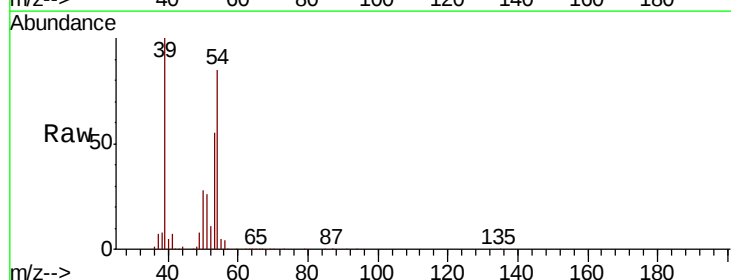
Manual Integrations
APPROVED

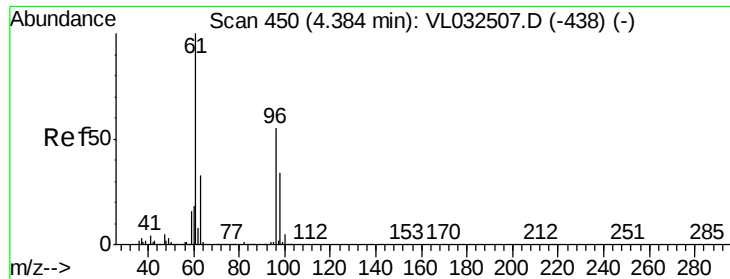
MMDadoda
9/24/2018 11:20:00 AM



#16
1,3-Butadiene
Concen: 8.077 ppbv
RT: 3.38 min Scan# 139
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion: 39 Resp: 523826
Ion Ratio Lower Upper
39 100
54 104.3 80.8 121.2





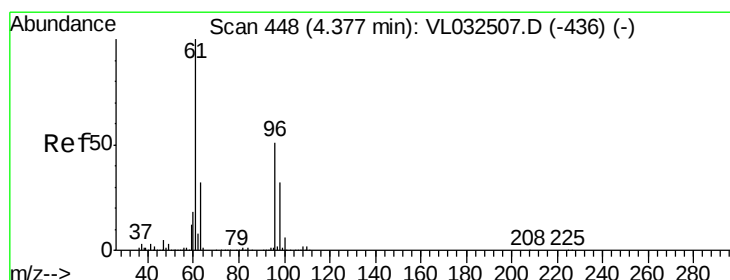
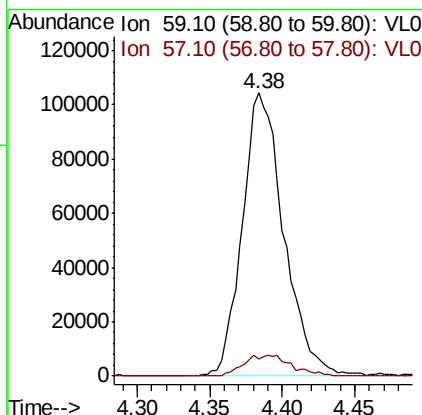
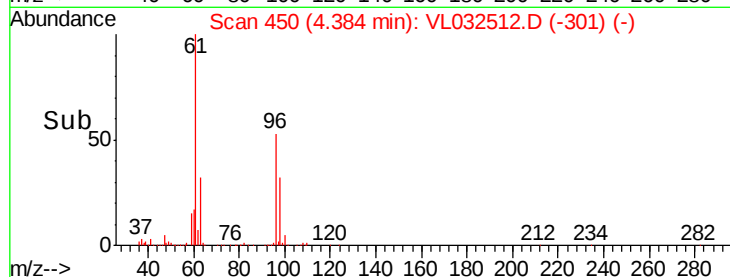
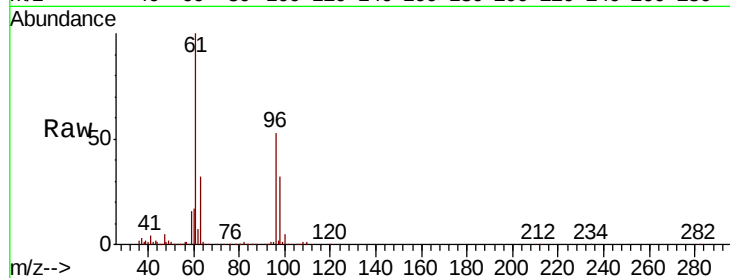
#17
tert-Butyl alcohol
Concen: 9.770 ppbv
RT: 4.38 min Scan# 450
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.8	0.0	0.0#

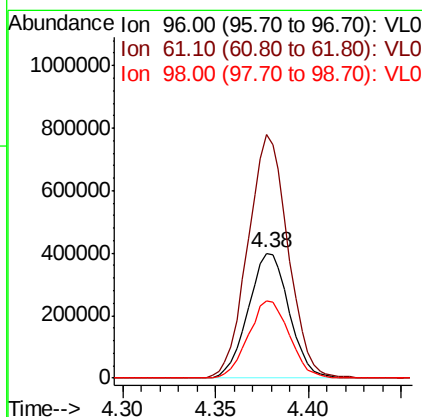
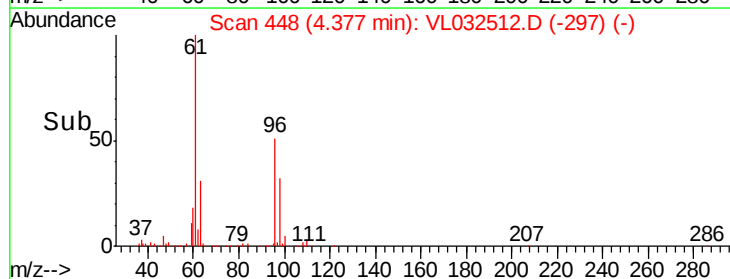
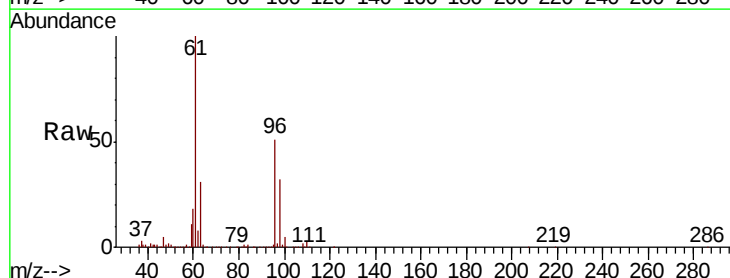
Manual Integrations
APPROVED

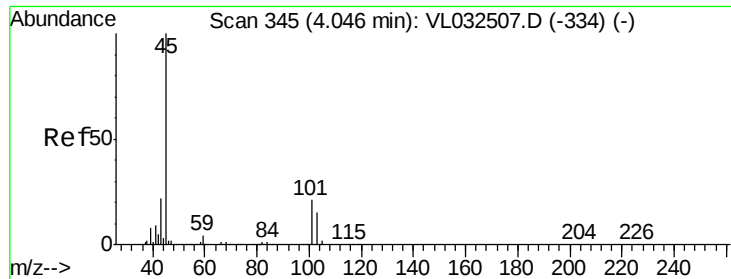
MMDadoda
9/24/2018 11:20:00 AM



#18
1,1-Dichloroethene
Concen: 11.237 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.5	159.2	238.8
98	61.6	51.0	76.4





#19

Isopropyl Alcohol

Concen: 10.008 ppbv

RT: 4.05 min Scan# 345

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 904890

Ion Ratio Lower Upper

45 100

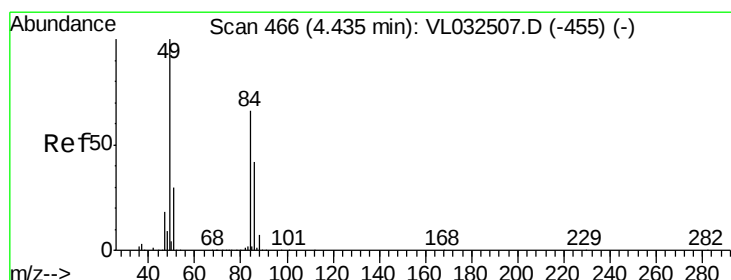
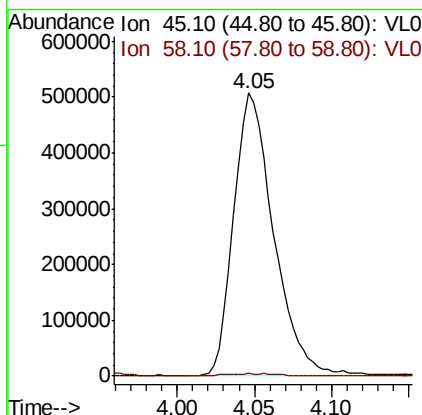
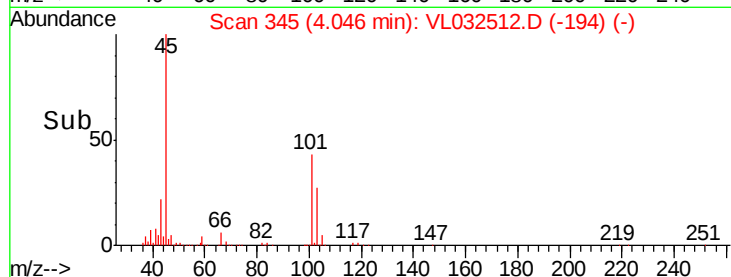
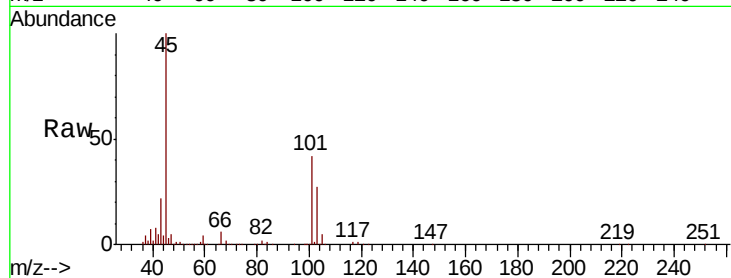
58 1.6 2.0 3.0#

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#20

Methylene Chloride

Concen: 10.407 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion: 84 Resp: 546917

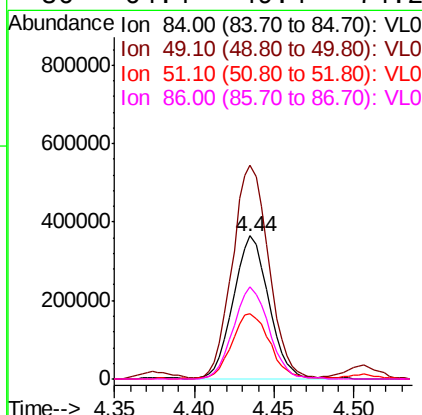
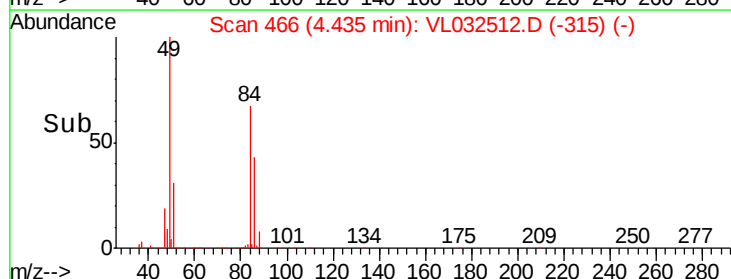
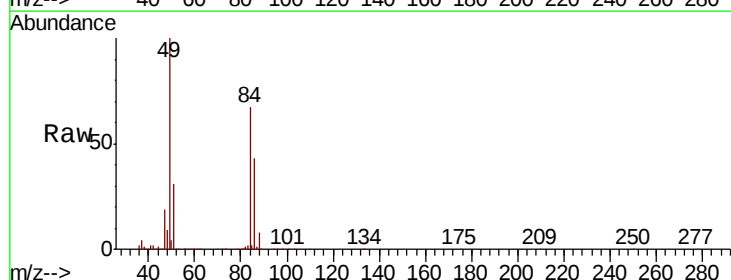
Ion Ratio Lower Upper

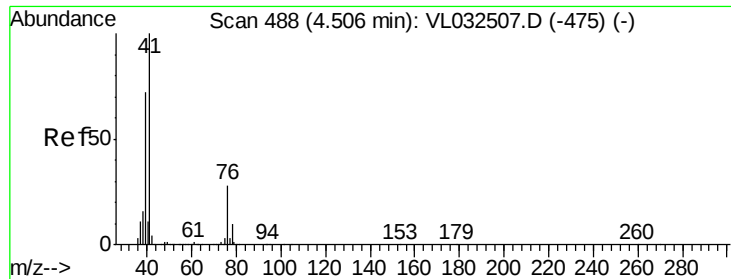
84 100

49 148.7 119.1 178.7

51 45.7 35.2 52.8

86 64.4 49.4 74.2





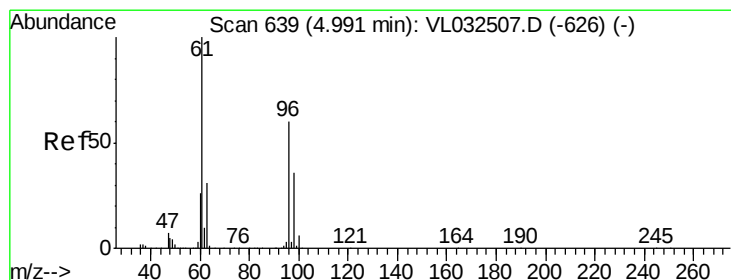
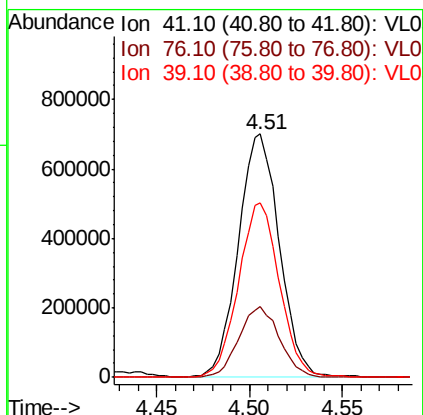
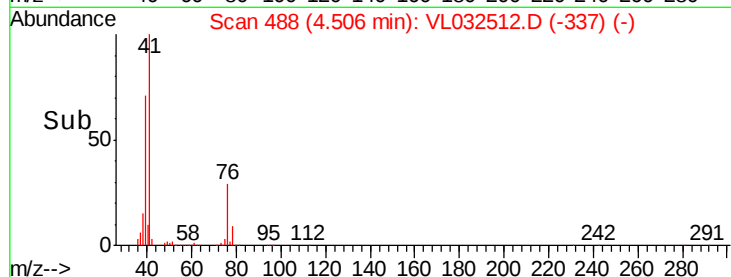
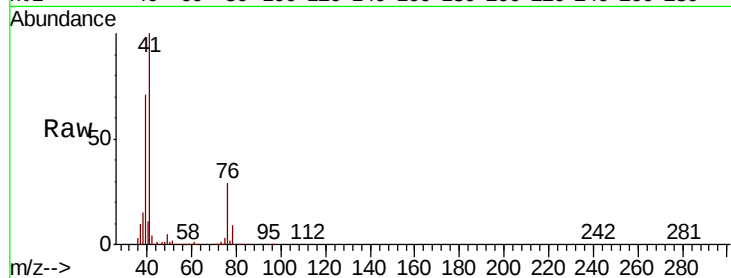
#21
Allvl Chloride
Concen: 11.665 ppbv
RT: 4.51 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.0	23.6	35.4
39	72.2	57.7	86.5

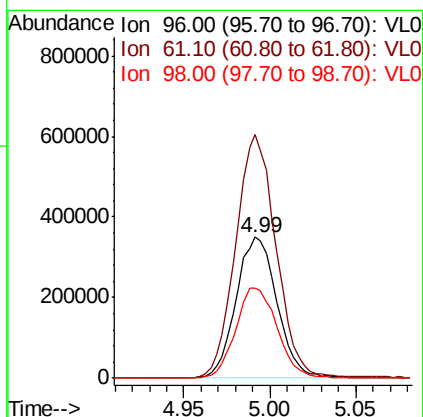
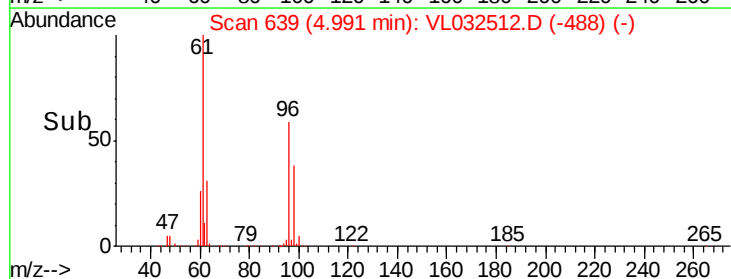
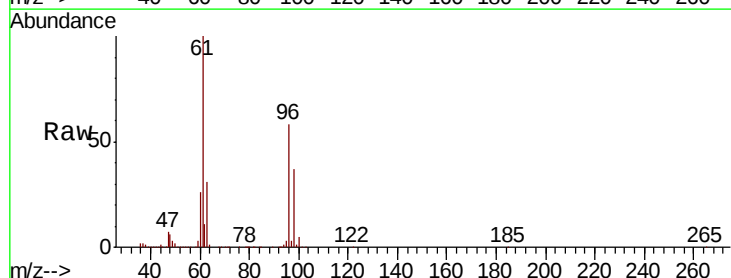
Manual Integrations
APPROVED

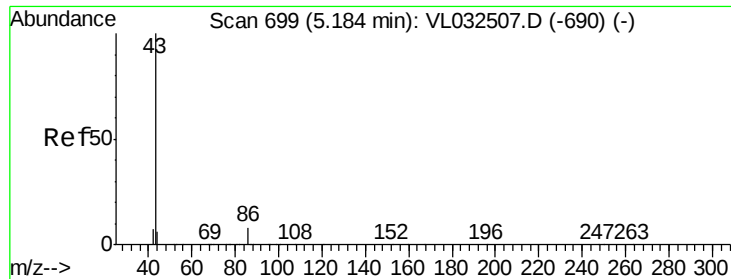
MMDadoda
9/24/2018 11:20:00 AM



#22
trans-1,2-Dichloroethene
Concen: 9.700 ppbv
RT: 4.99 min Scan# 639
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.7	136.2	204.4
98	64.0	50.4	75.6





#23

Vinyl Acetate

Concen: 11.648 ppbv

RT: 5.18 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2661128

Ion Ratio Lower Upper

43 100

86 7.5 5.9 8.9

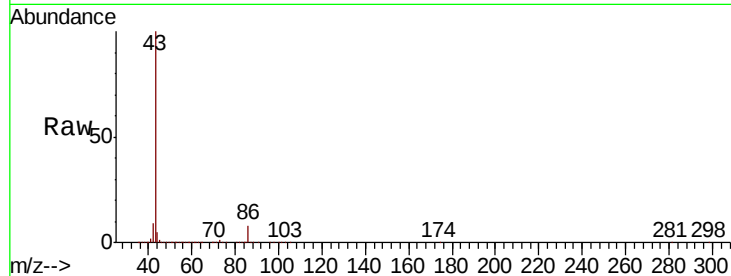
42 8.7 6.9 10.3

44 4.9 4.6 7.0

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM

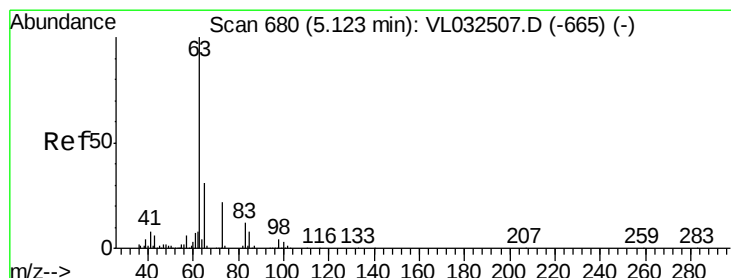
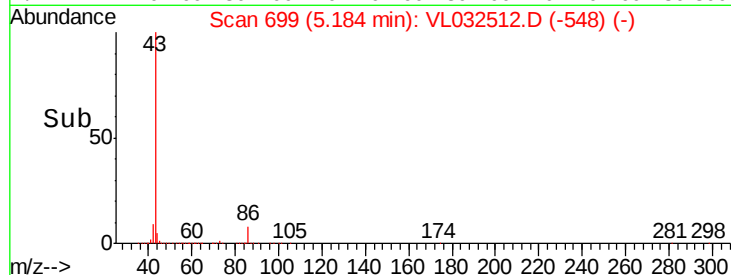
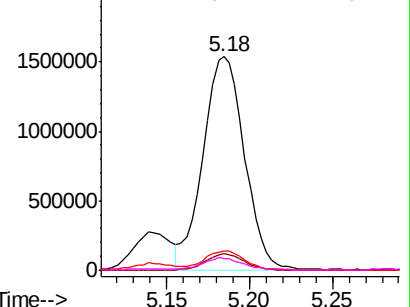


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.739 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

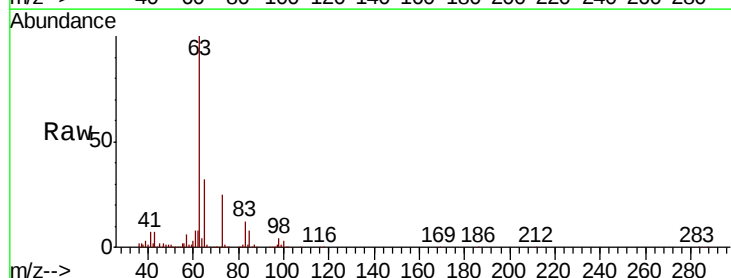
Tgt Ion: 63 Resp: 1833400

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.5

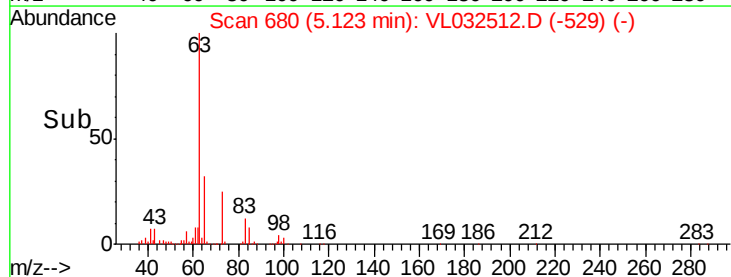
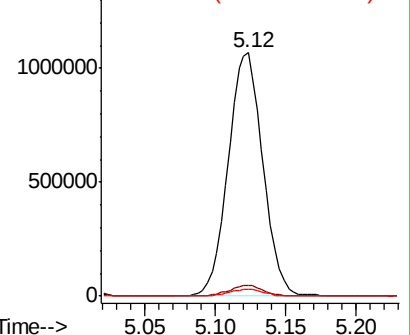
100 2.6 1.5 4.4

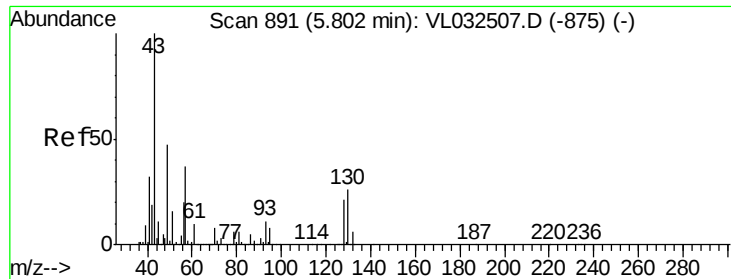


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





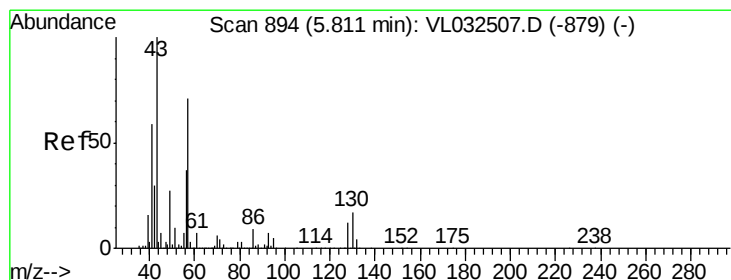
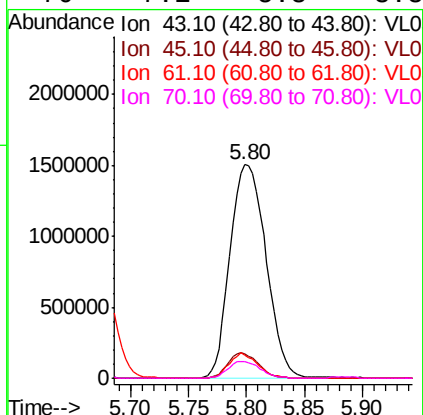
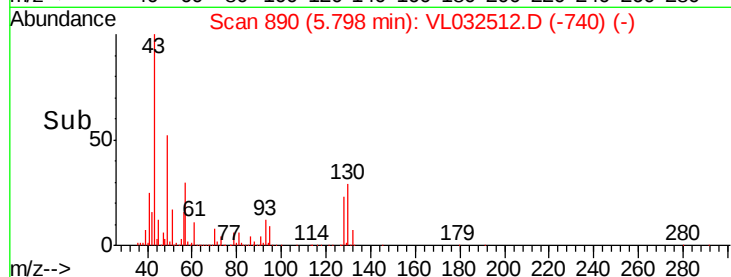
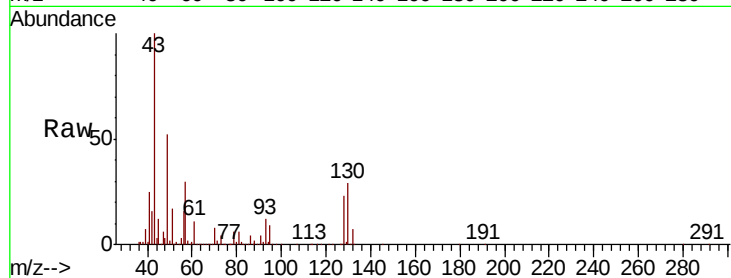
#25
Ethyl Acetate
Concen: 9.966 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	3243729
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.0	12.0
61	9.4	7.6	11.4
70	7.1	5.8	8.8

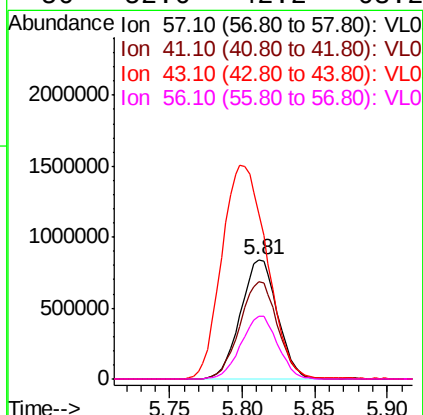
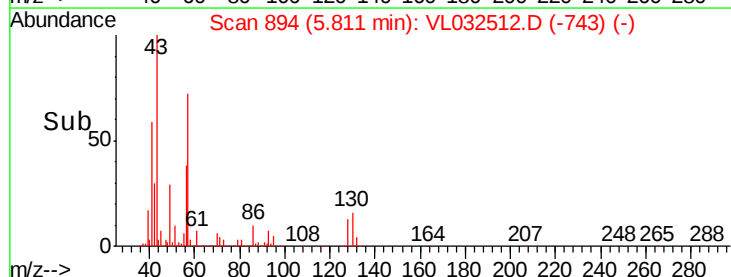
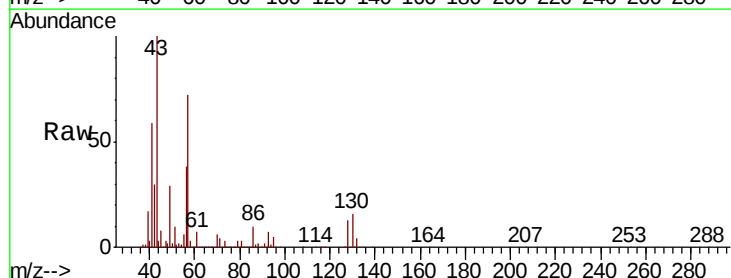
Manual Integrations
APPROVED

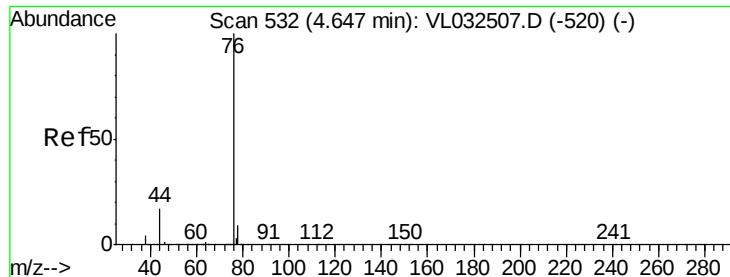
MMDadoda
9/24/2018 11:20:00 AM



#26
Hexane
Concen: 10.195 ppbv
RT: 5.81 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion:	57	Resp:	1485782
Ion	Ratio	Lower	Upper
57	100		
41	83.9	69.0	103.4
43	218.9	172.1	258.1
56	52.6	42.2	63.2





#27

Carbon Disulfide

Concen: 11.584 ppbv

RT: 4.65 min Scan# 532

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1558439

Ion Ratio Lower Upper

76 100

44 17.7 14.0 21.0

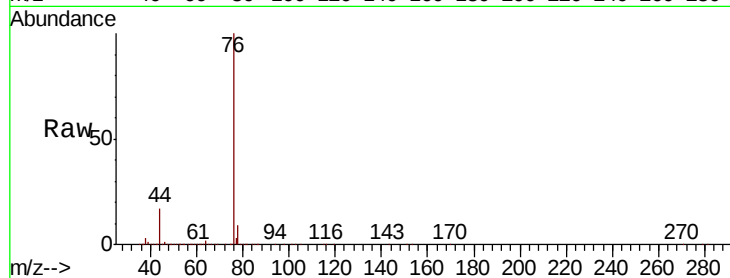
78 9.2 7.5 11.3

Manual Integrations

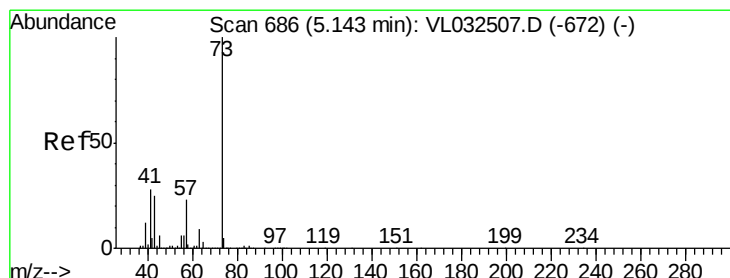
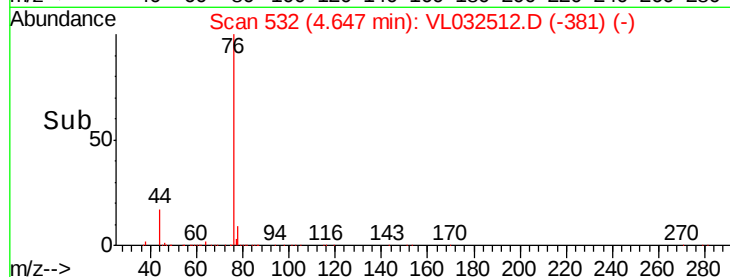
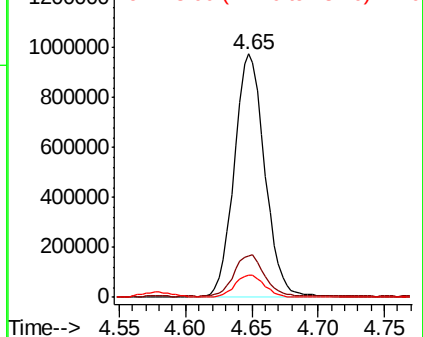
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.607 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL032512.D

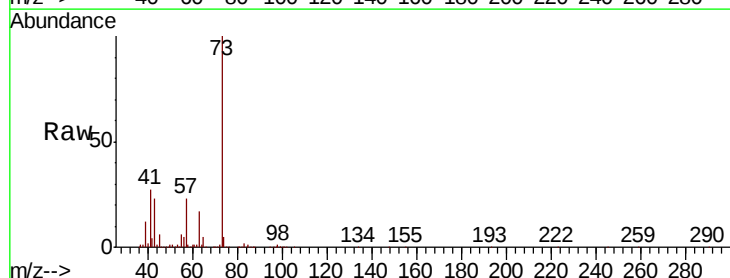
Acq: 20 Sep 2018 18:22

Tgt Ion: 73 Resp: 2076966

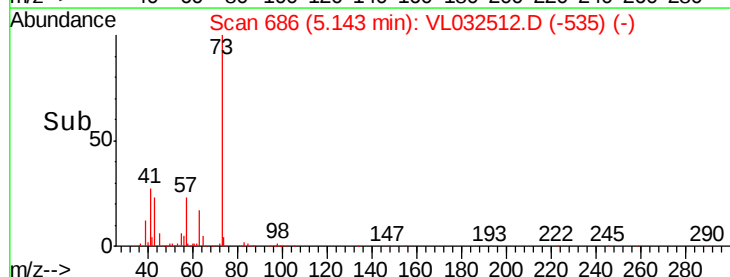
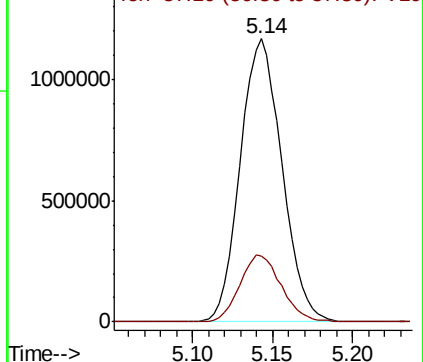
Ion Ratio Lower Upper

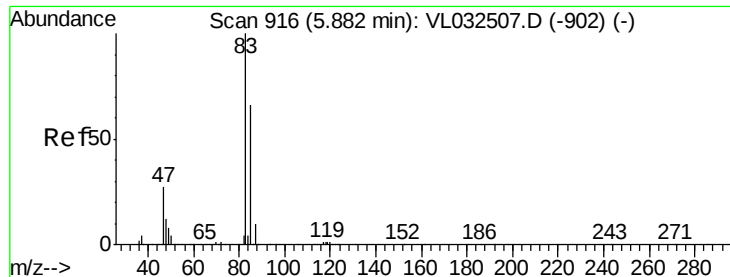
73 100

57 23.8 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.558 ppbv

RT: 5.88 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2123809

Ion Ratio Lower Upper

83 100

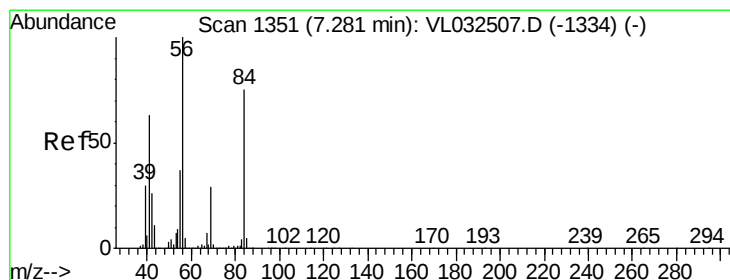
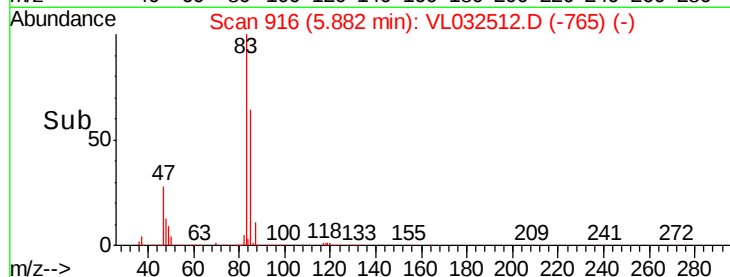
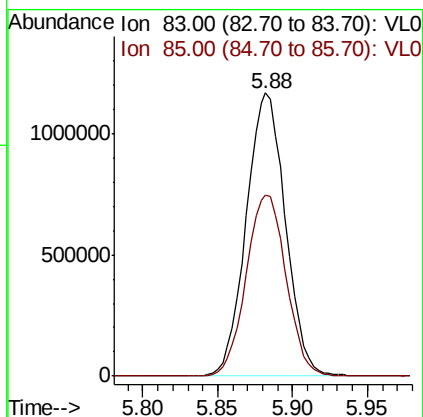
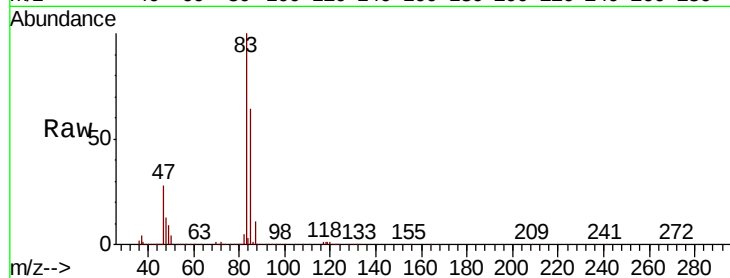
85 63.7 52.5 78.7

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#30

Cyclohexane

Concen: 12.233 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

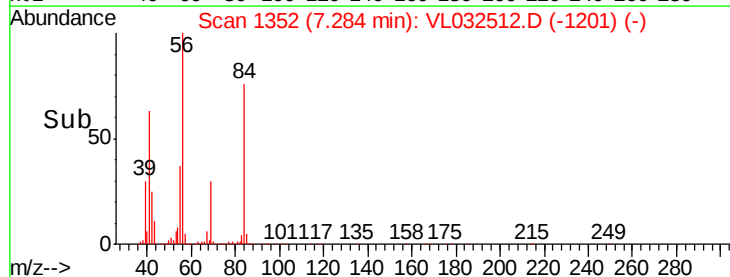
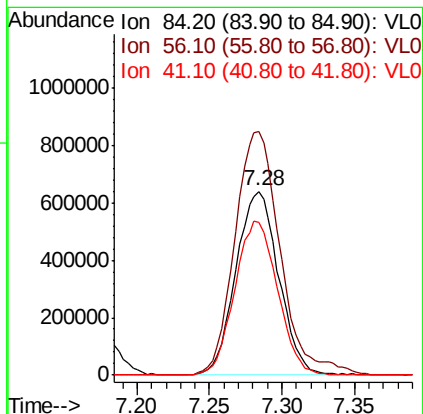
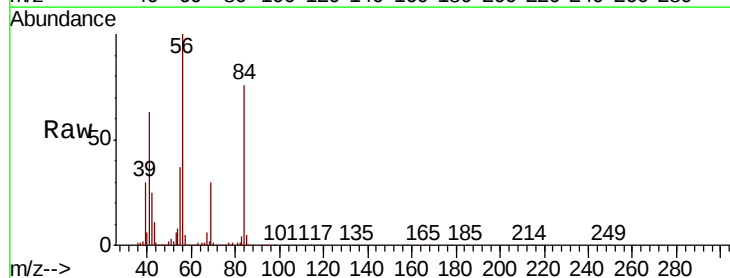
Tgt Ion: 84 Resp: 1305470

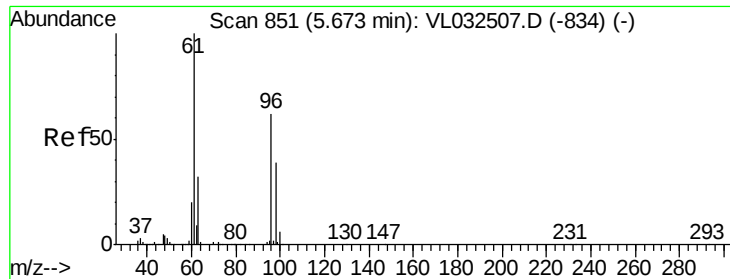
Ion Ratio Lower Upper

84 100

56 142.0 113.5 170.3

41 84.1 68.1 102.1





#31

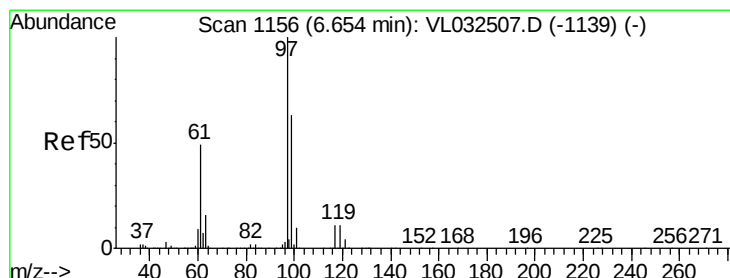
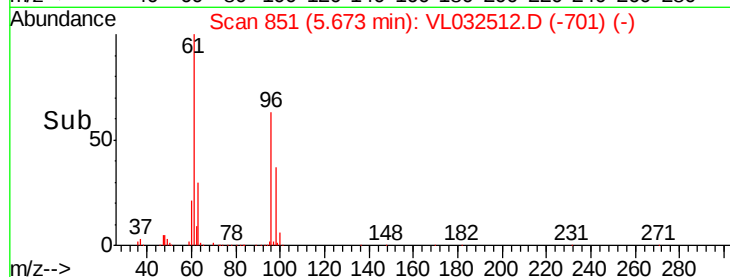
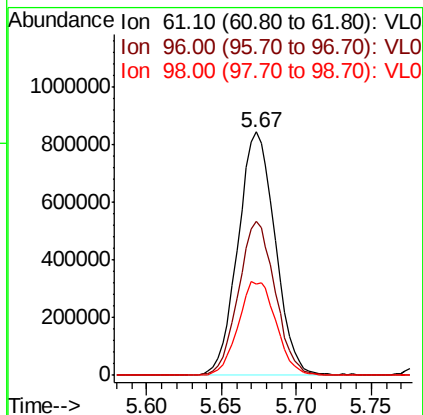
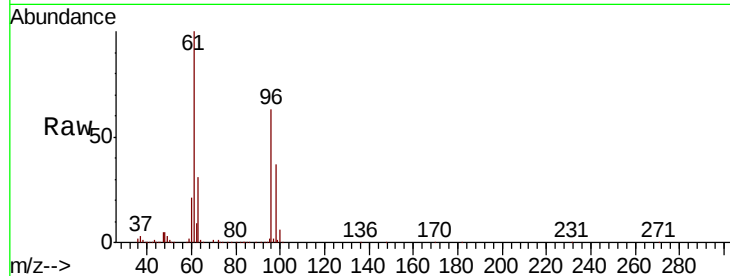
cis-1,2-Dichloroethene
 Concen: 11.017 ppbv
 RT: 5.67 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	61	Resp	1453917
Ion	Ratio	Lower	Upper
61	100		
96	63.2	49.2	73.8
98	37.3	30.7	46.1

Manual Integrations
 APPROVED

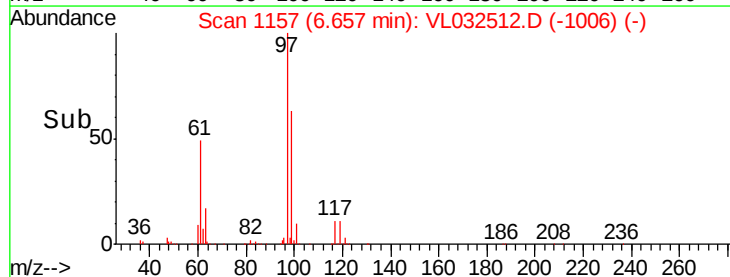
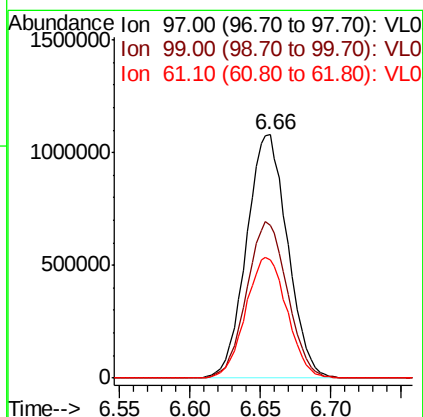
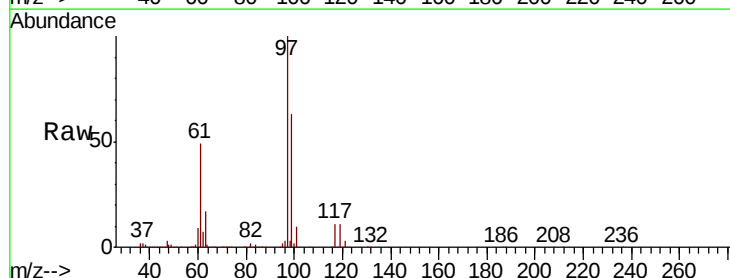
MMDadoda
 9/24/2018 11:20:00 AM

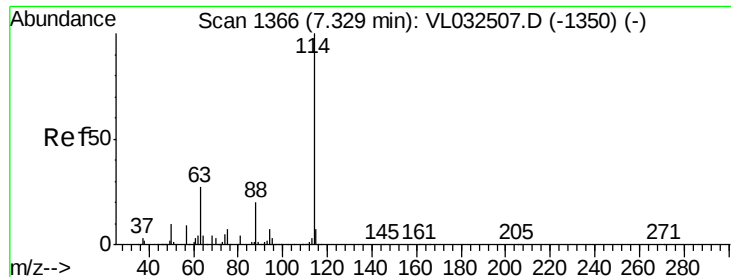


#32

1,1,1-Trichloroethane
 Concen: 10.613 ppbv
 RT: 6.66 min Scan# 1157
 Delta R.T. -0.01 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	97	Resp	2198292
Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.1	78.1
61	50.2	42.5	63.7





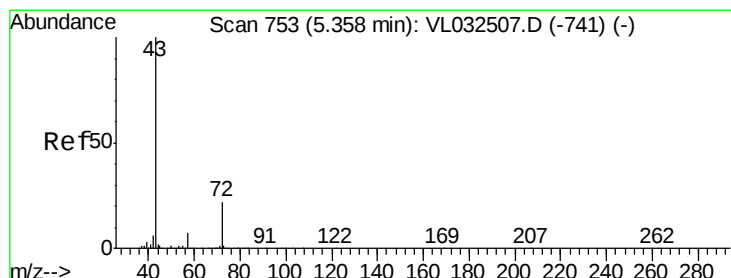
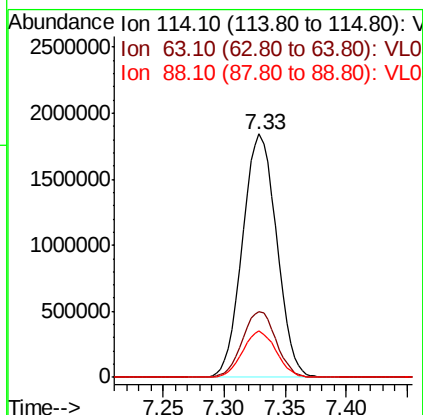
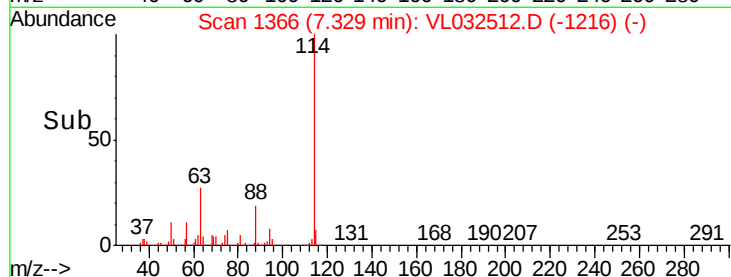
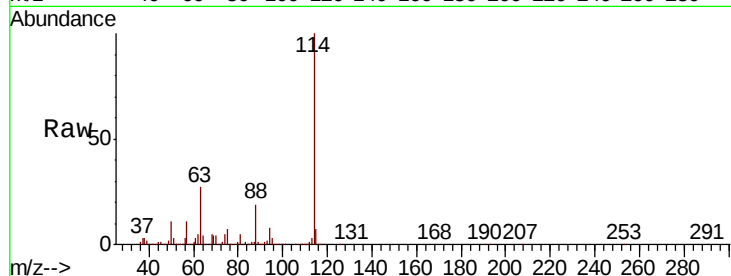
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	18.6	15.0	22.4

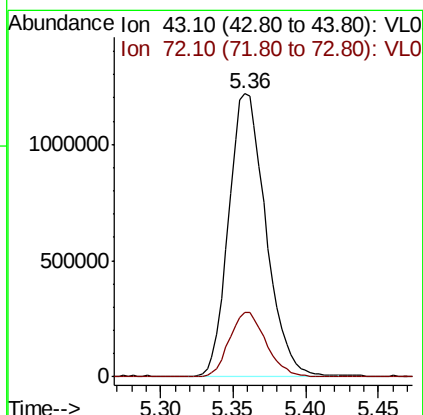
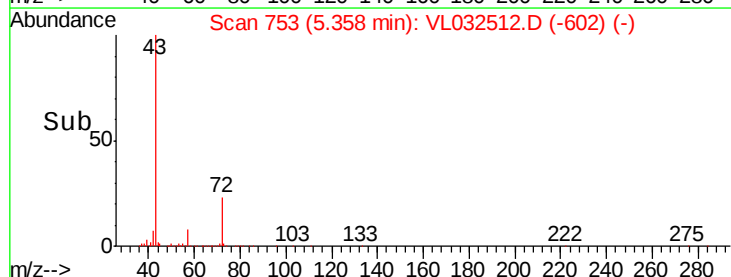
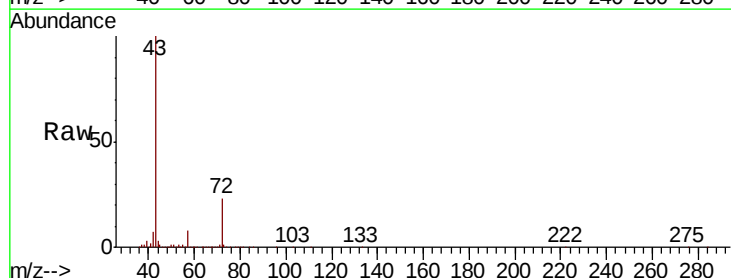
Manual Integrations
 APPROVED

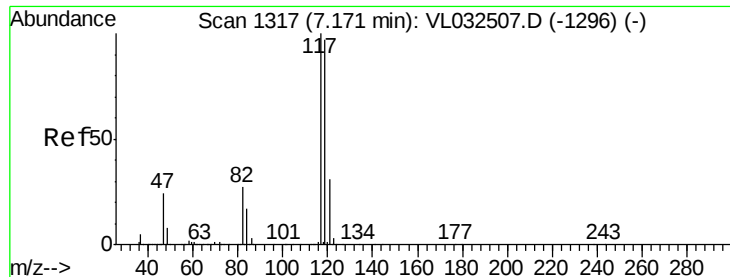
MMDadoda
 9/24/2018 11:20:00 AM



#34
 2-Butanone
 Concen: 9.156 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.036 ppbv

RT: 7.17 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2159752

Ion Ratio Lower Upper

117 100

119 95.1 76.6 115.0

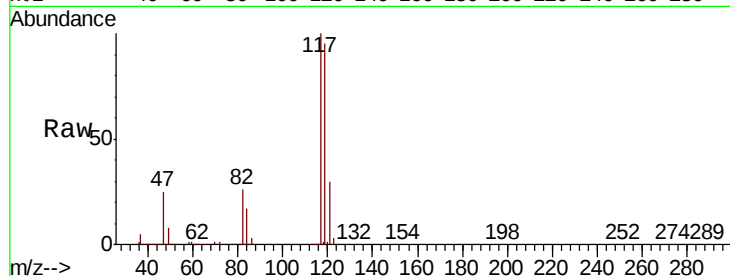
121 30.3 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

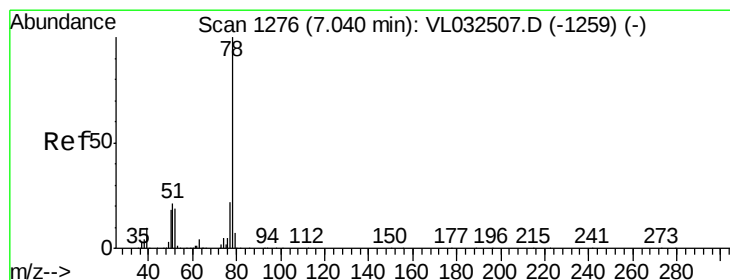
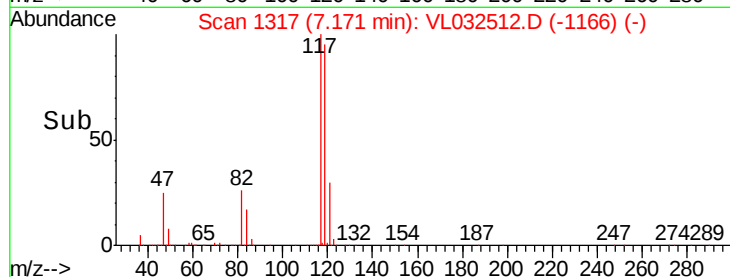
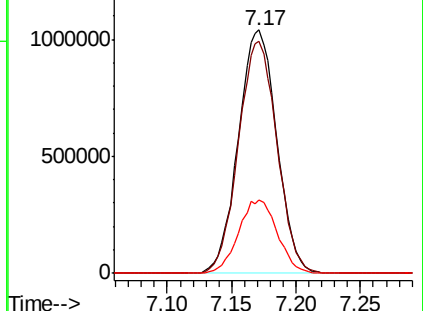
9/24/2018 11:20:00 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.985 ppbv

RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

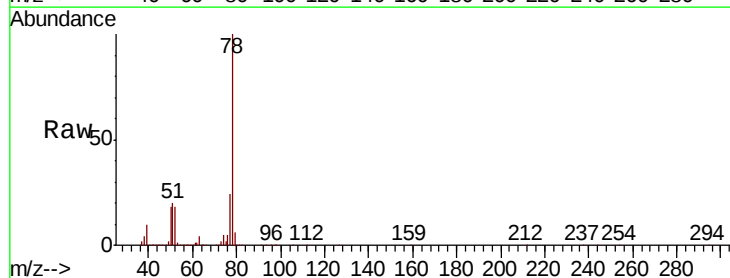
Tgt Ion: 78 Resp: 3021802

Ion Ratio Lower Upper

78 100

77 23.6 18.4 27.6

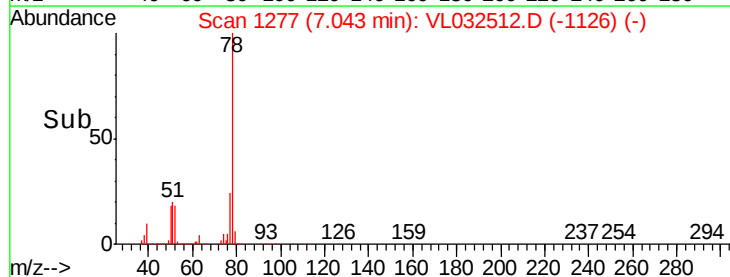
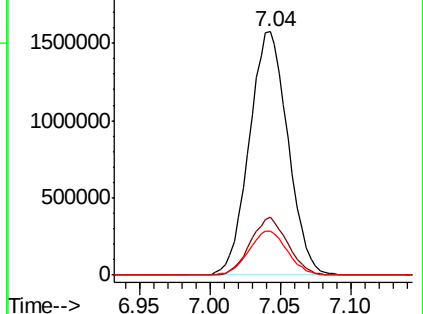
50 17.9 14.4 21.6

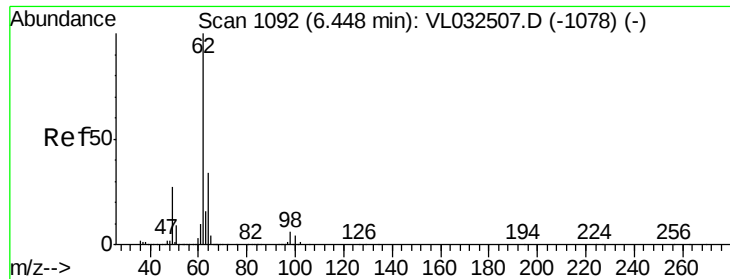


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.173 ppbv

RT: 6.45 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1701178

Ion Ratio Lower Upper

62 100

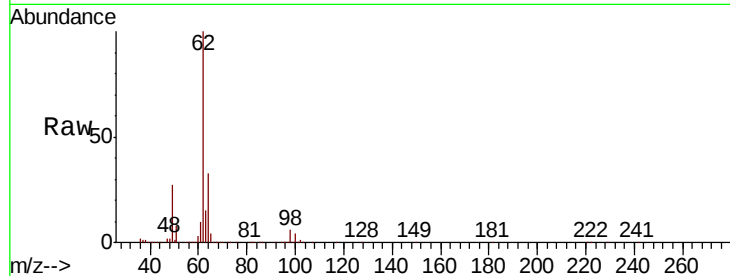
98 6.1 5.0 7.6

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.45

1000000

800000

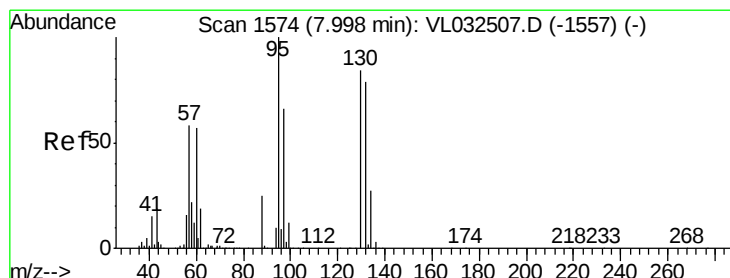
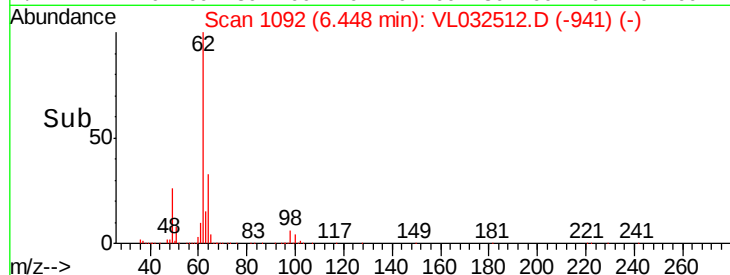
600000

400000

200000

0

Time--> 6.35 6.40 6.45 6.50



#38

Trichloroethene

Concen: 9.319 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion:130 Resp: 1071401

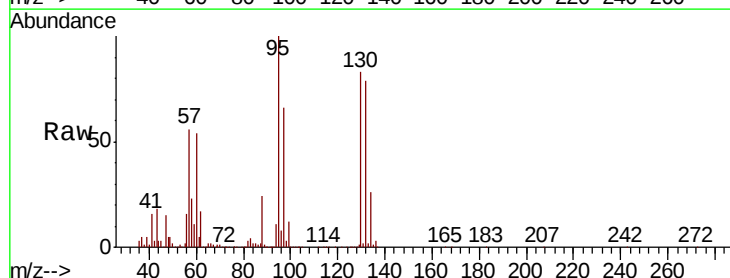
Ion Ratio Lower Upper

130 100

95 120.7 94.2 141.4

132 94.8 76.2 114.4

97 79.1 60.8 91.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

1000000

800000

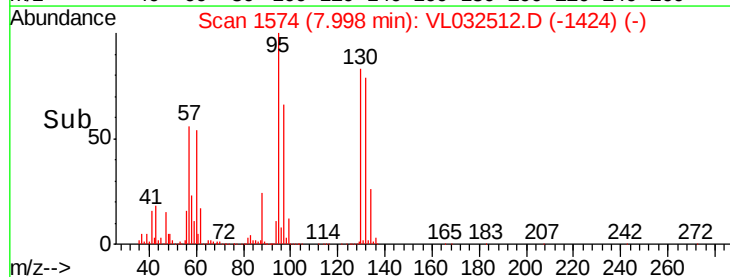
600000

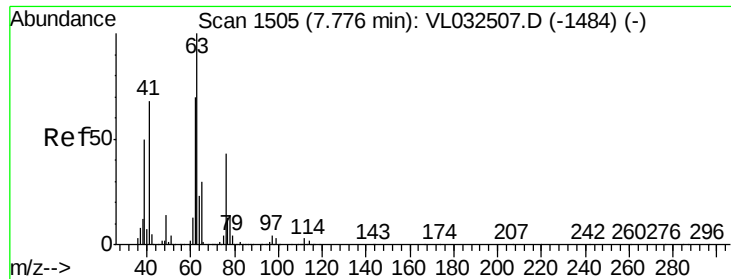
400000

200000

0

Time--> 7.90 7.95 8.00 8.05





#39

1,2-Dichloropropane

Concen: 10.072 ppbv

RT: 7.78 min Scan# 1505

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1304165

Ion Ratio Lower Upper

63 100

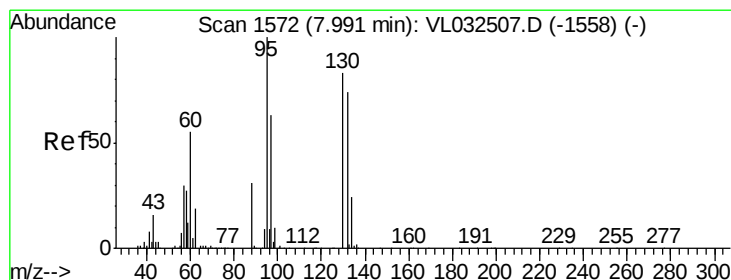
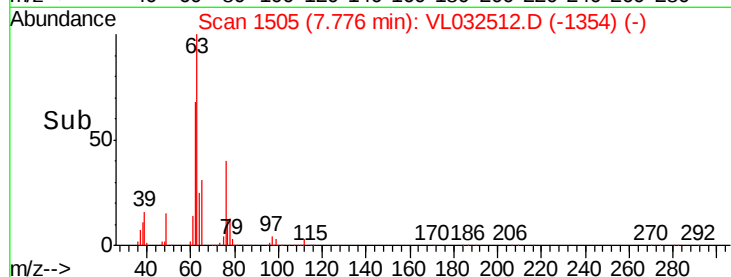
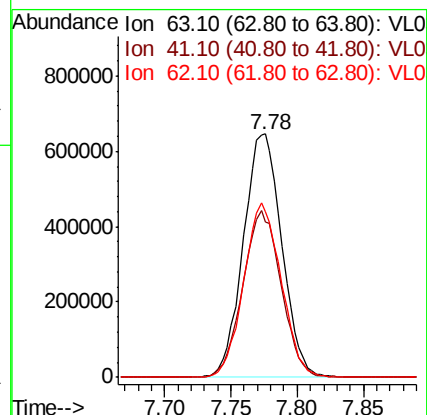
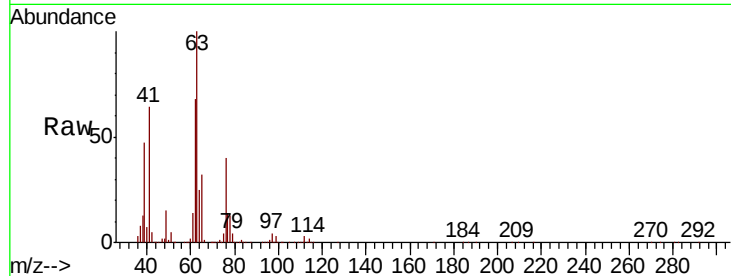
41 64.0 55.4 83.0

62 67.9 55.4 83.0

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#40

1,4-Dioxane

Concen: 11.077 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion: 88 Resp: 430318

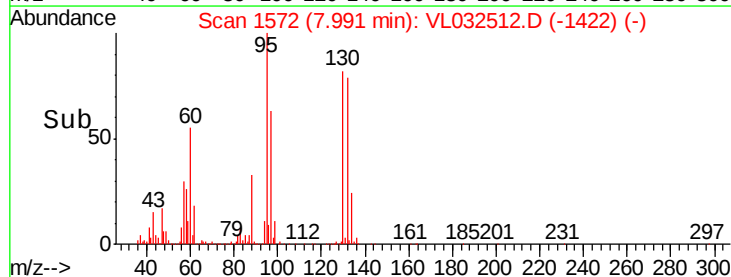
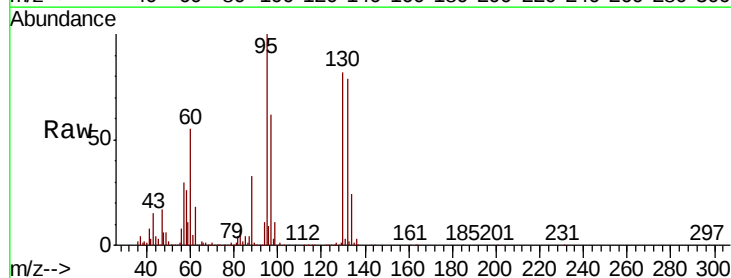
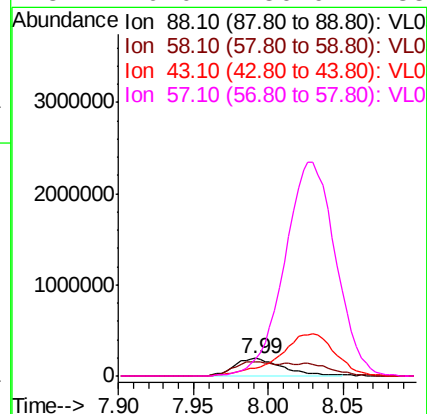
Ion Ratio Lower Upper

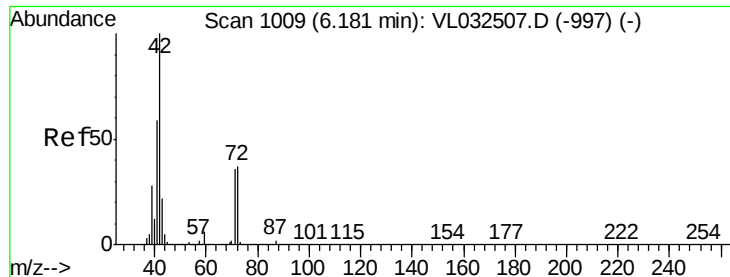
88 100

58 141.1 119.7 179.5

43 0.0 253.0 379.4#

57 0.0 1156.9 1735.3#





#41

Tetrahydrofuran

Concen: 10.751 ppbv

RT: 6.18 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

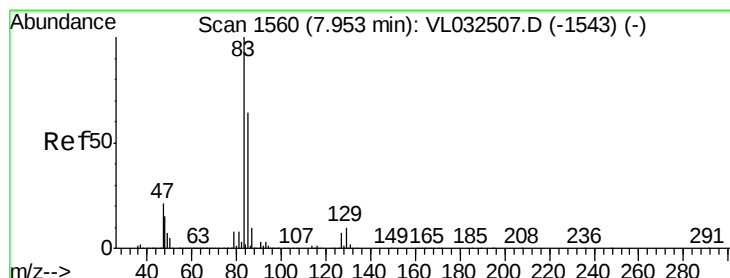
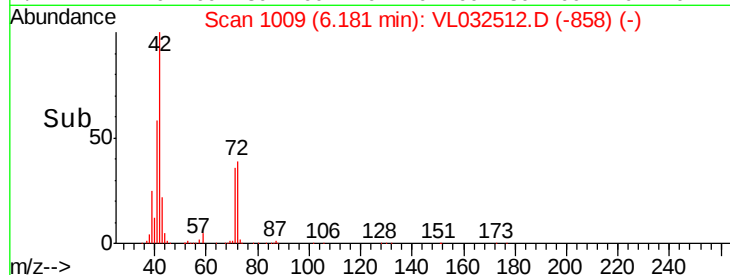
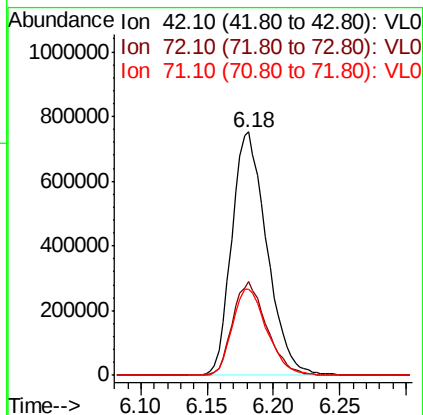
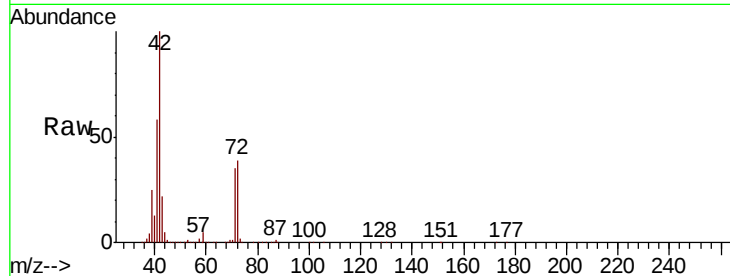
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	1382531
Ion	Ratio	Lower	Upper
42	100		
72	37.6	29.5	44.3
71	35.1	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
9/24/2018 11:20:00 AM



#42

Bromodichloromethane

Concen: 9.668 ppbv

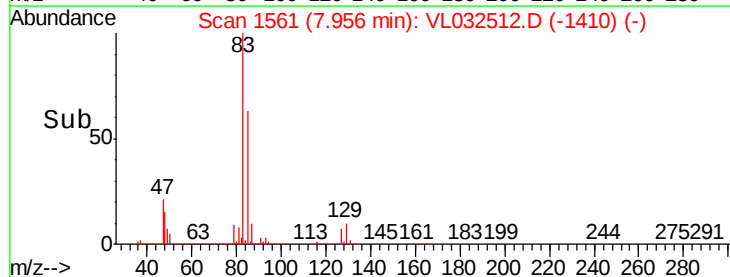
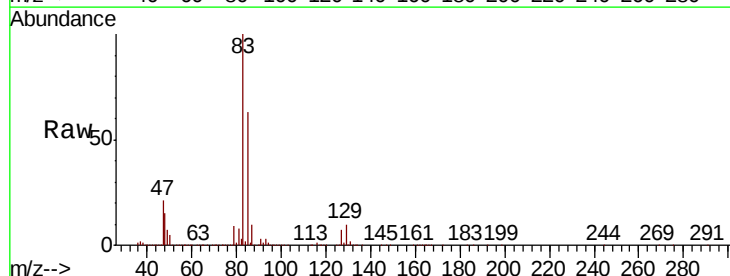
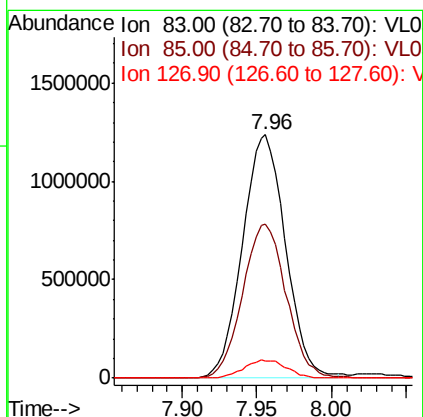
RT: 7.96 min Scan# 1561

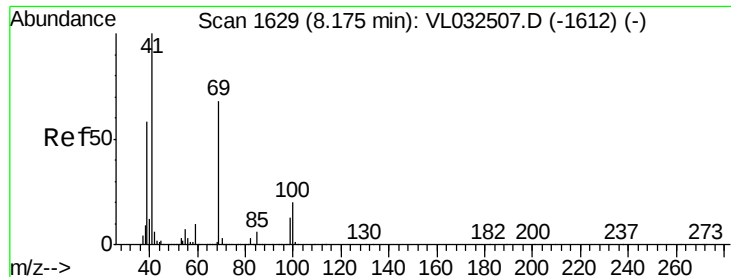
Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion:	83	Resp:	2473151
Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.1	76.7
127	7.2	5.8	8.8





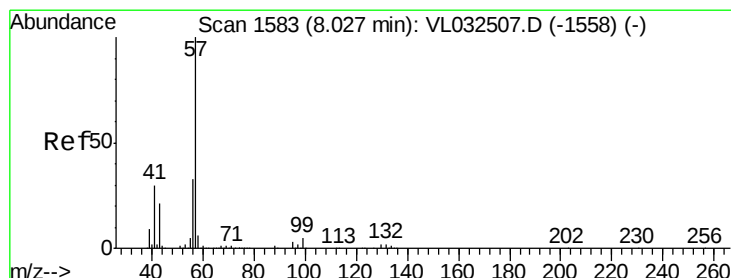
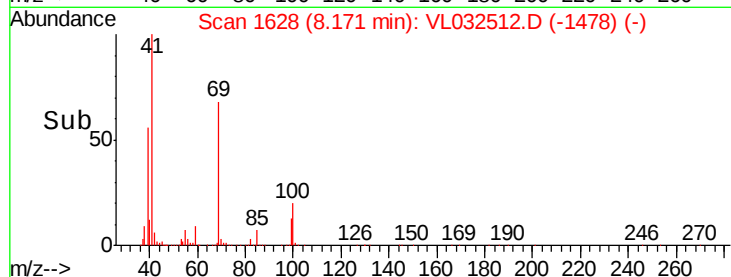
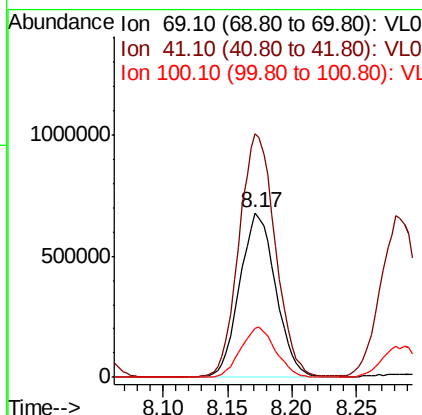
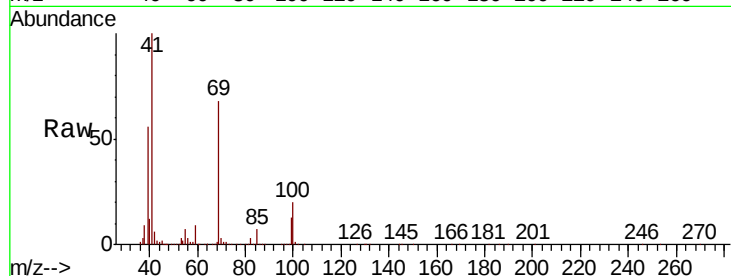
#43
Methvl Methacrilate
Concen: 10.299 ppbv
RT: 8.17 min Scan# 1628
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1322377
Ion Ratio Lower Upper
69 100
41 148.6 117.1 175.7
100 29.7 23.4 35.2

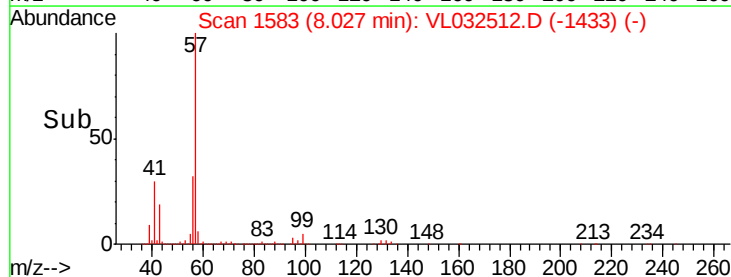
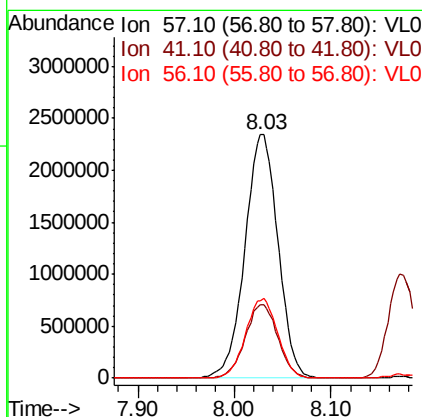
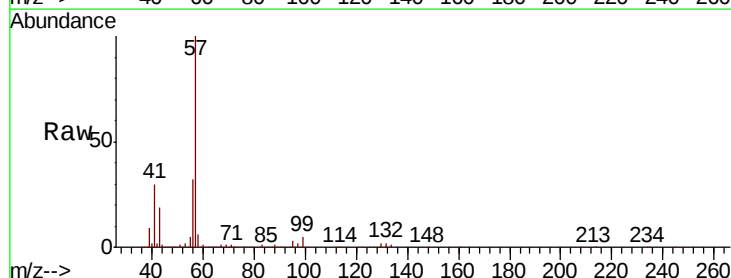
Manual Integrations
APPROVED

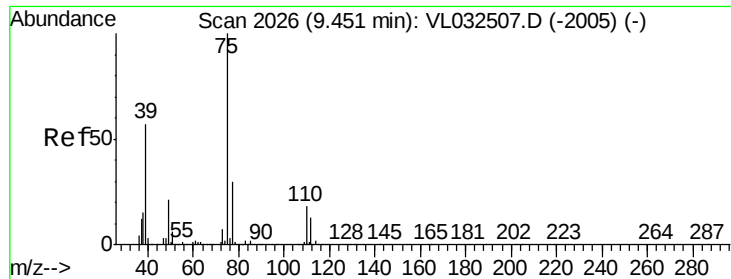
MMDadoda
9/24/2018 11:20:00 AM



#44
2,2,4-Trimethylpentane
Concen: 9.517 ppbv
RT: 8.03 min Scan# 1583
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion: 57 Resp: 5568411
Ion Ratio Lower Upper
57 100
41 29.7 24.4 36.6
56 31.7 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 13.129 ppbv

RT: 9.45 min Scan# 2027

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1803724

Ion Ratio Lower Upper

75 100

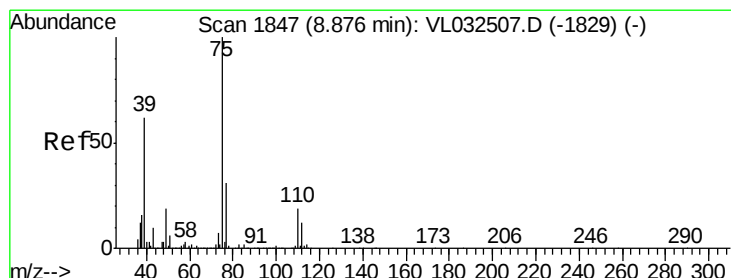
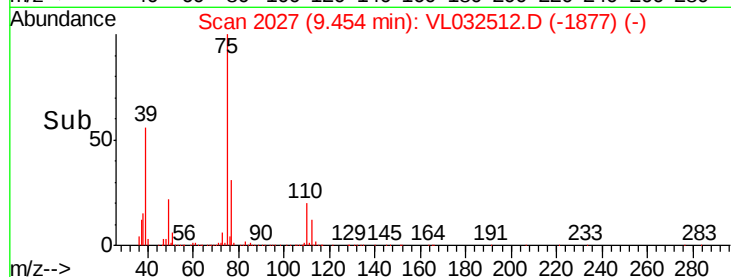
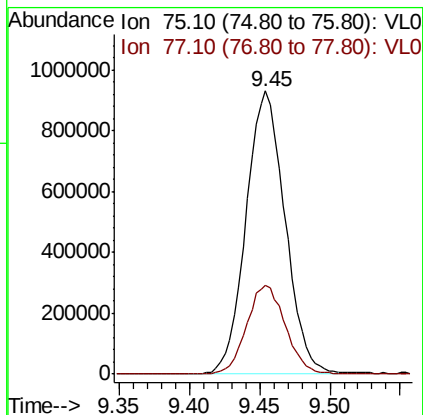
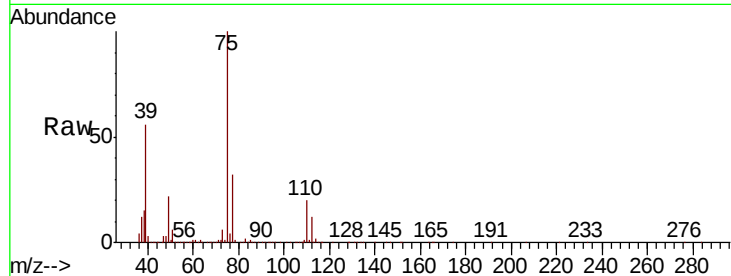
77 31.5 26.2 39.2

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#46

cis-1,3-Dichloropropene

Concen: 11.528 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

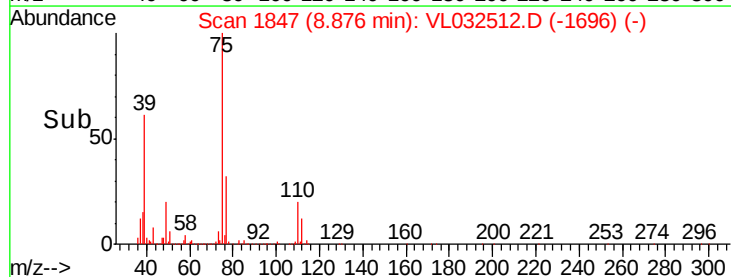
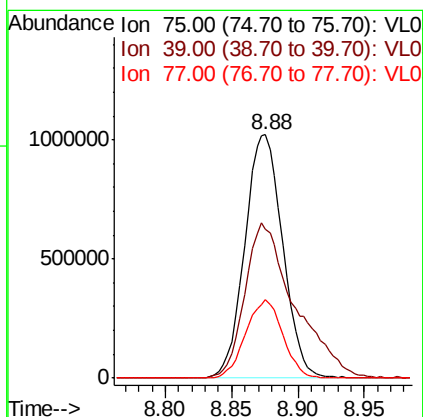
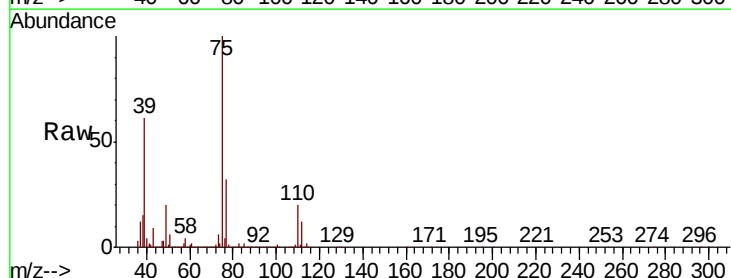
Tgt Ion: 75 Resp: 2023786

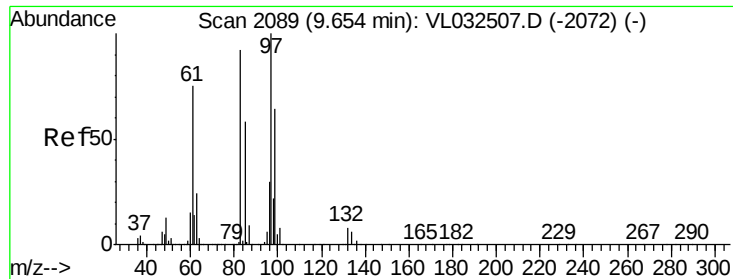
Ion Ratio Lower Upper

75 100

39 61.2 48.9 73.3

77 32.4 25.4 38.0





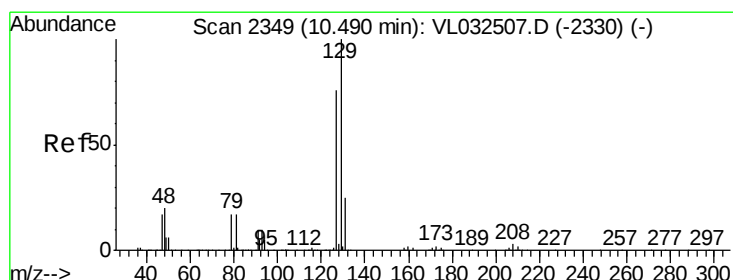
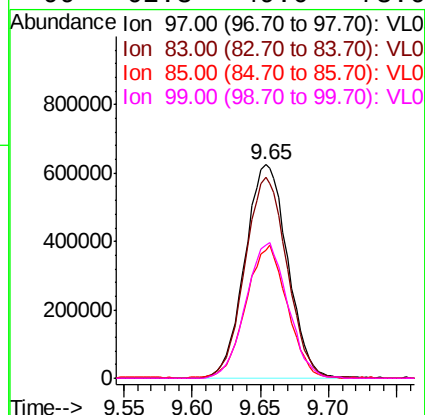
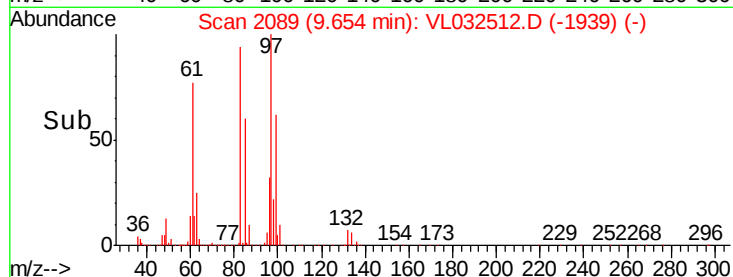
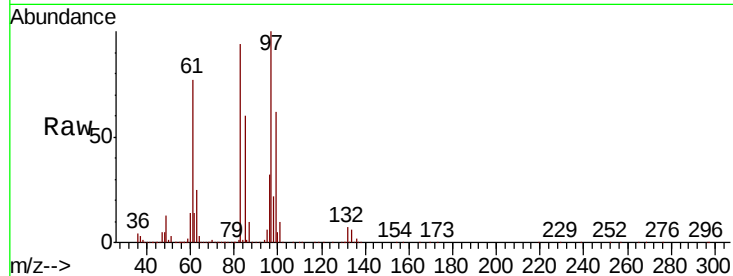
#47
 1,1,2-Trichloroethane
 Concen: 9.841 ppbv
 RT: 9.65 min Scan# 2089
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	94.1	75.0	112.4	
85	59.8	47.5	71.3	
99	62.3	49.0	73.6	

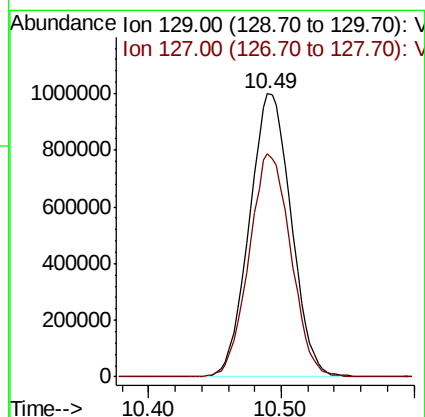
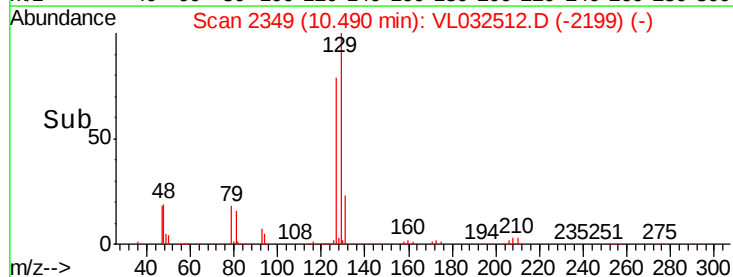
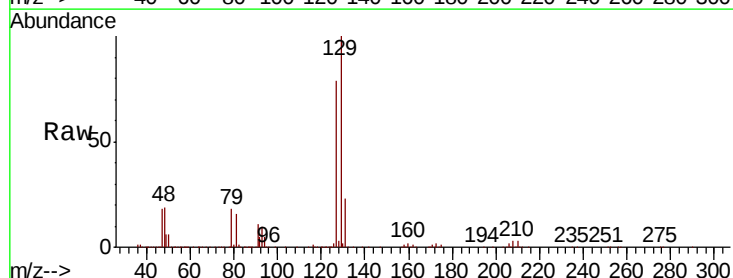
Manual Integrations
 APPROVED

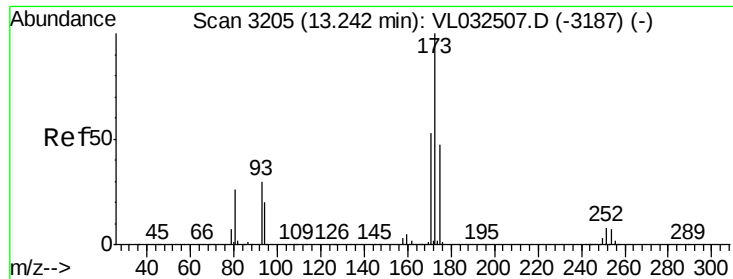
MMDadoda
 9/24/2018 11:20:00 AM



#48
 Dibromochloromethane
 Concen: 11.486 ppbv
 RT: 10.49 min Scan# 2349
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.8	39.5	118.3	





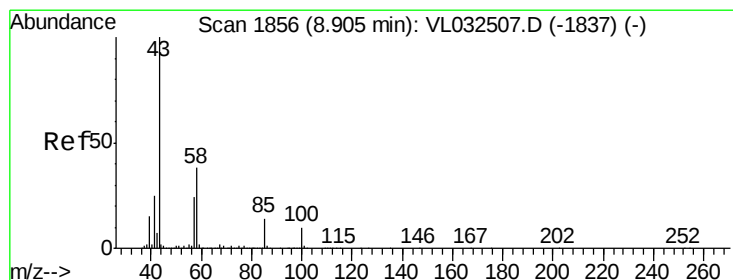
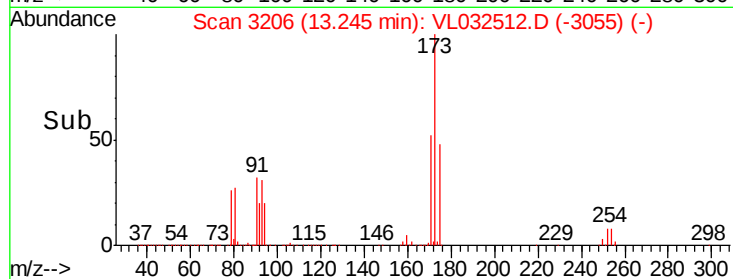
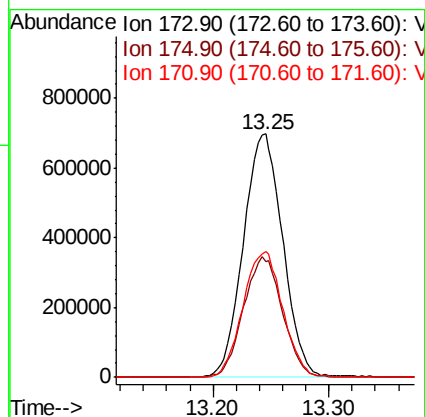
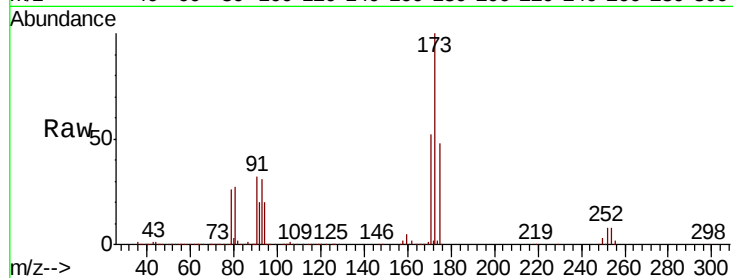
#49
Bromoform
Concen: 9.933 ppbv
RT: 13.25 min Scan# 3206
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1646145
Ion Ratio Lower Upper
173 100
175 49.2 38.9 58.3
171 52.5 41.6 62.4

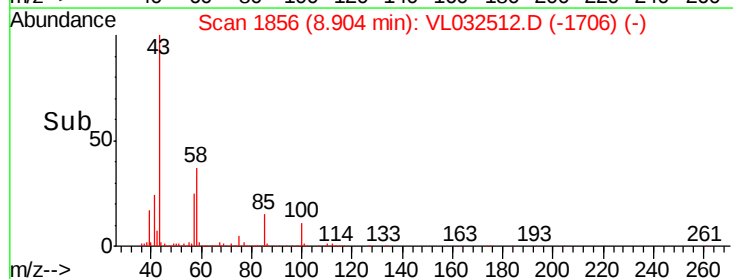
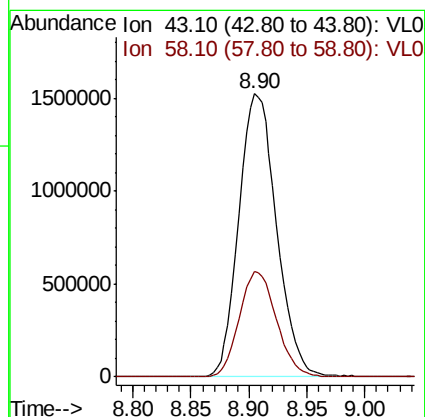
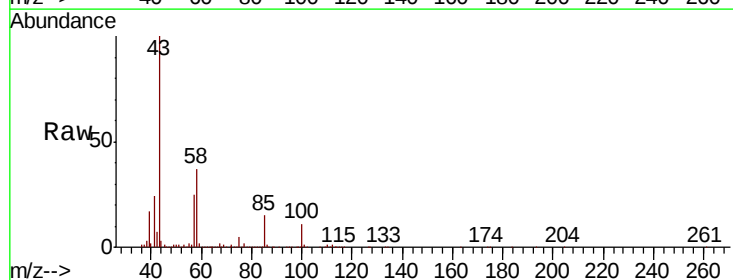
Manual Integrations
APPROVED

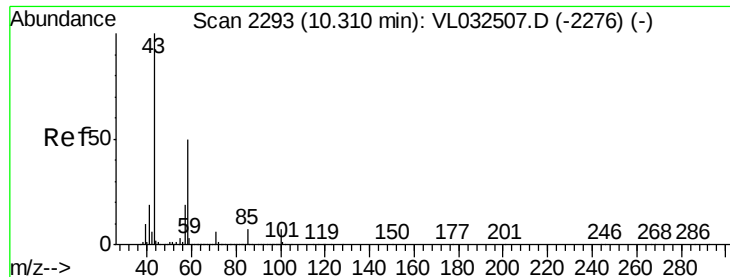
MMDadoda
9/24/2018 11:20:00 AM



#50
4-Methyl-2-Pentanone
Concen: 9.673 ppbv
RT: 8.90 min Scan# 1856
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion: 43 Resp: 3442010
Ion Ratio Lower Upper
43 100
58 36.9 29.0 43.4





#51

2-Hexanone

Concen: 13.225 ppbv

RT: 10.31 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3031295

Ion Ratio Lower Upper

43 100

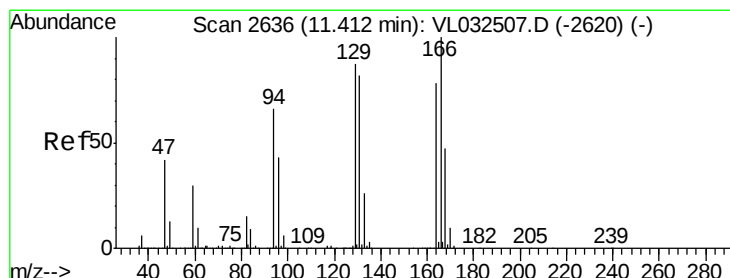
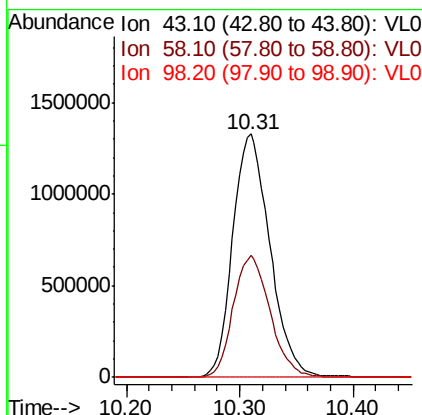
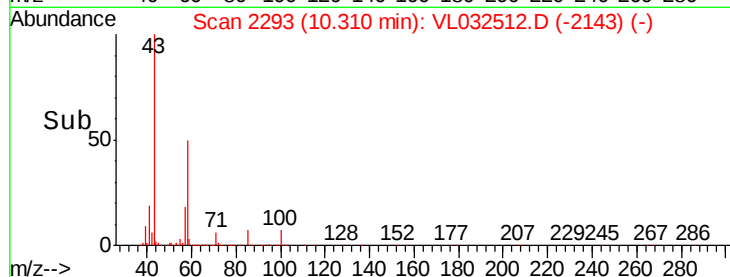
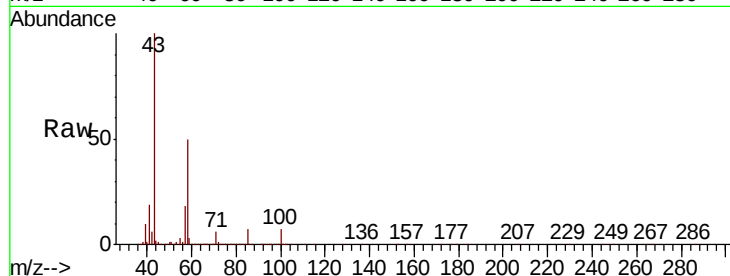
58 49.8 39.2 58.8

98 0.3 0.4 0.6#

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#52

Tetrachloroethene

Concen: 10.226 ppbv

RT: 11.41 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion: 164 Resp: 959637

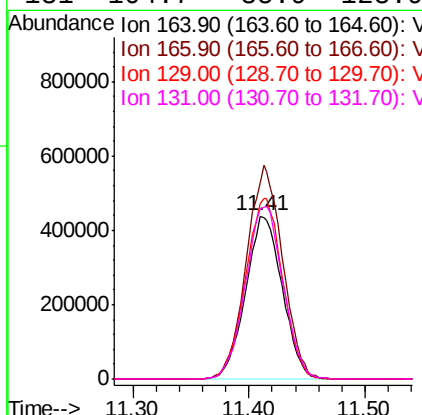
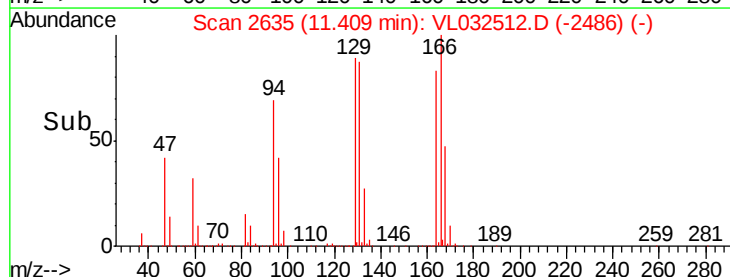
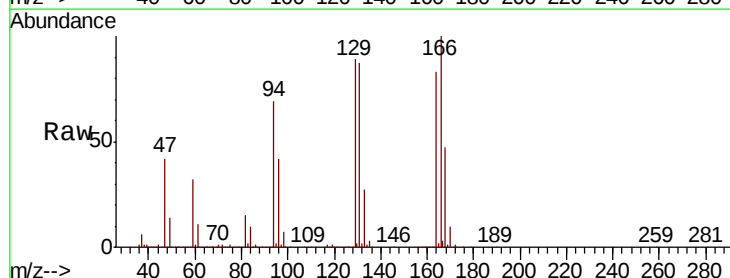
Ion Ratio Lower Upper

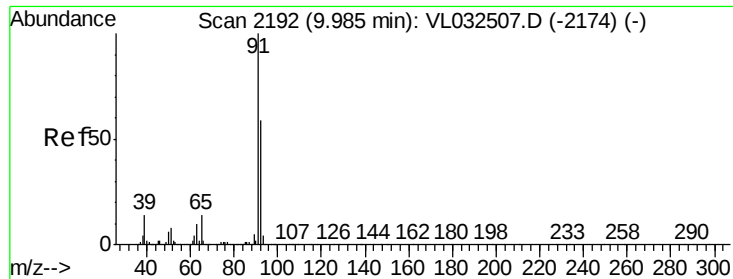
164 100

166 120.2 100.6 150.8

129 107.5 89.9 134.9

131 104.7 85.9 128.9





#53

Toluene

Concen: 12.203 ppbv

RT: 9.98 min Scan# 2192

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3860409

Ion Ratio Lower Upper

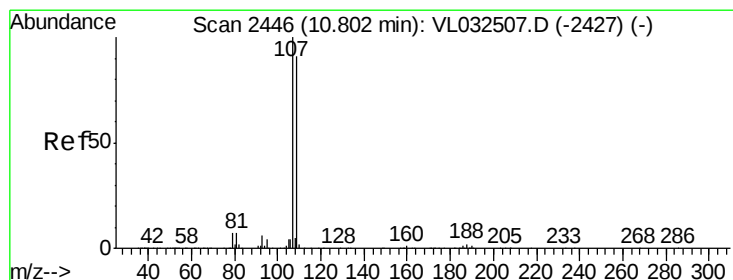
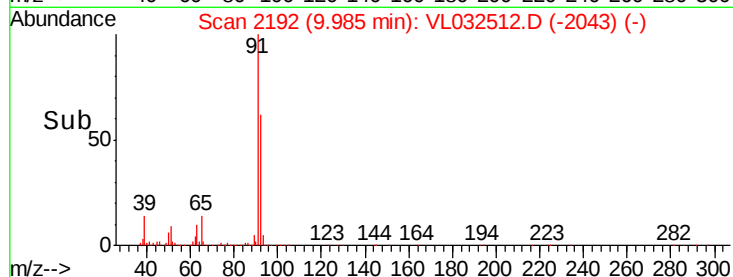
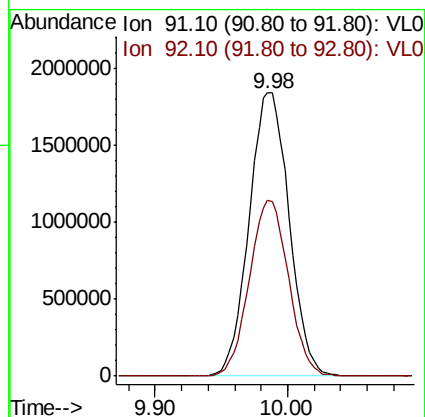
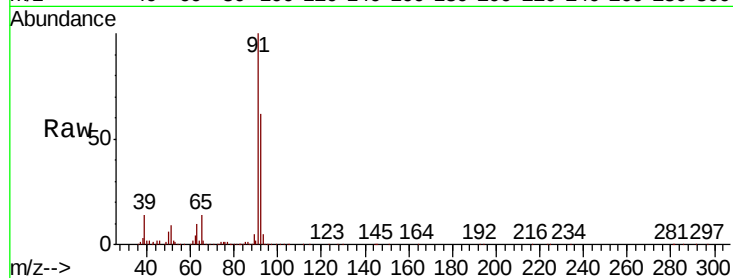
91 100

92 60.9 48.1 72.1

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#54

1,2-Dibromoethane

Concen: 10.910 ppbv

RT: 10.80 min Scan# 2445

Delta R.T. -0.02 min

Lab File: VL032512.D

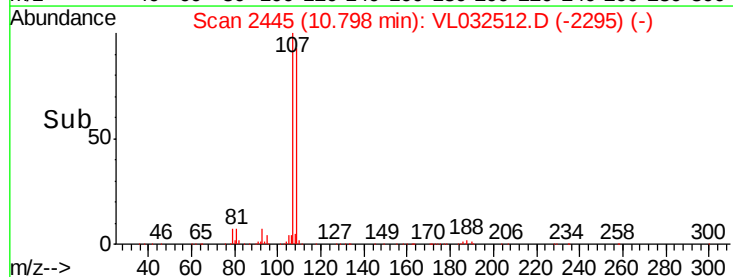
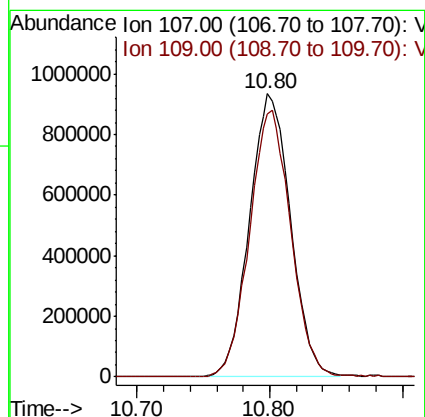
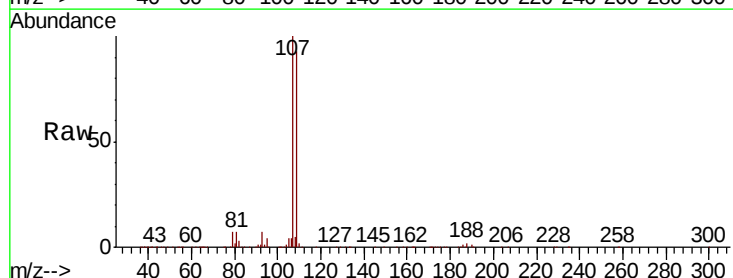
Acq: 20 Sep 2018 18:22

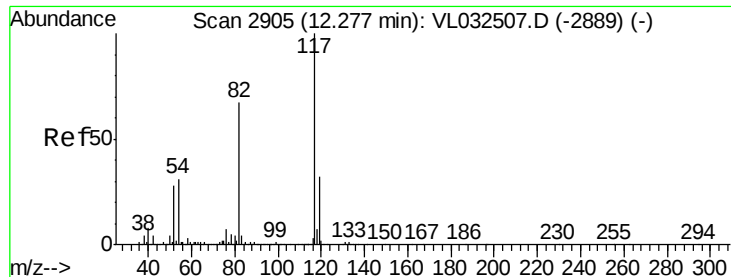
Tgt Ion: 107 Resp: 2016588

Ion Ratio Lower Upper

107 100

109 93.1 73.9 110.9





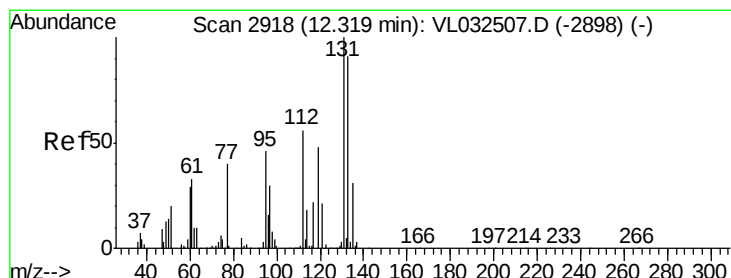
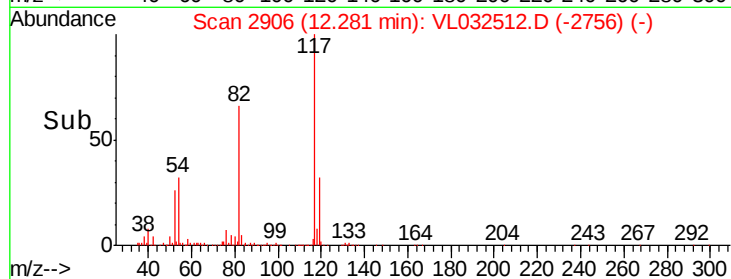
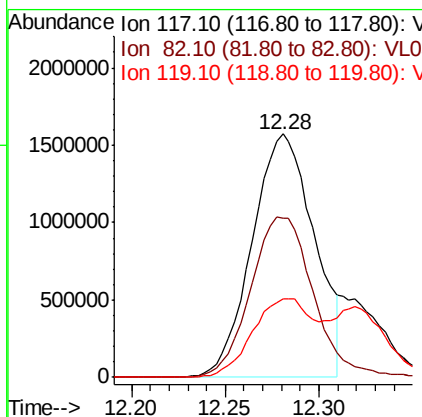
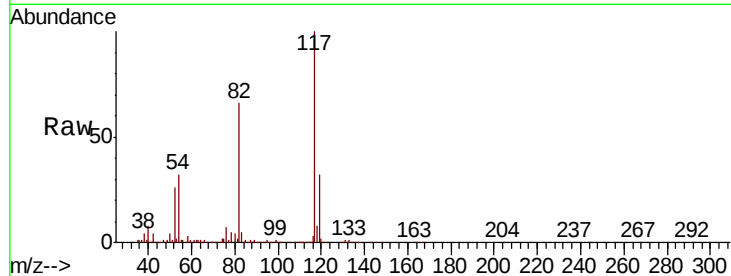
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.28 min Scan# 2906
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.8	53.0	79.6
119	30.8	45.9	68.9#

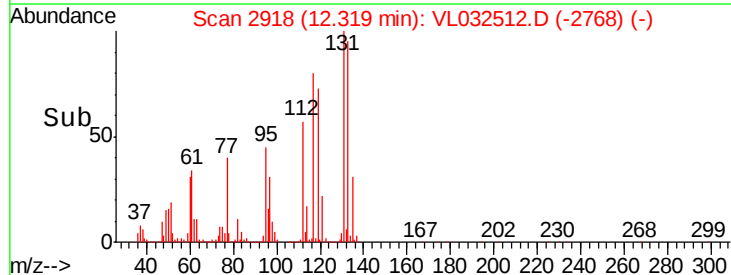
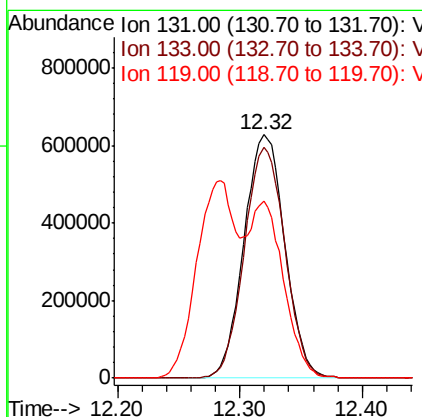
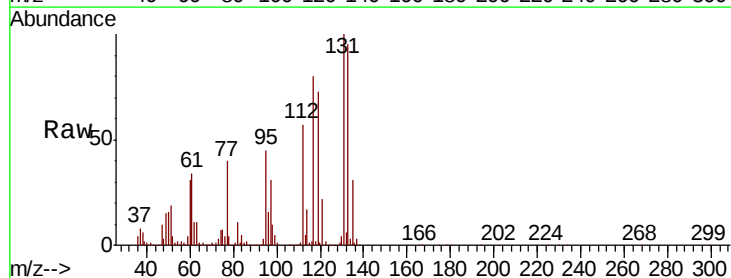
Manual Integrations
APPROVED

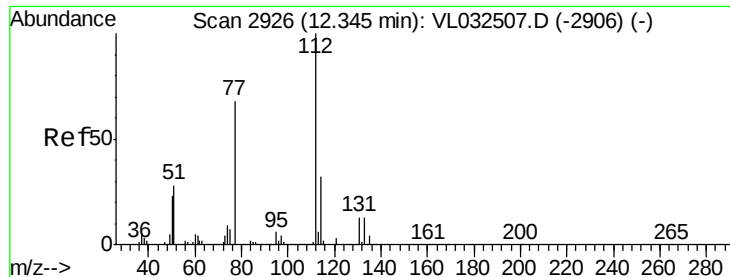
MMDadoda
9/24/2018 11:20:00 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.877 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.6	77.0	115.4
119	61.2	114.2	171.2#





#57

Chlorobenzene

Concen: 8.947 ppbv

RT: 12.34 min Scan# 2925

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2595130

Ion Ratio Lower Upper

112 100

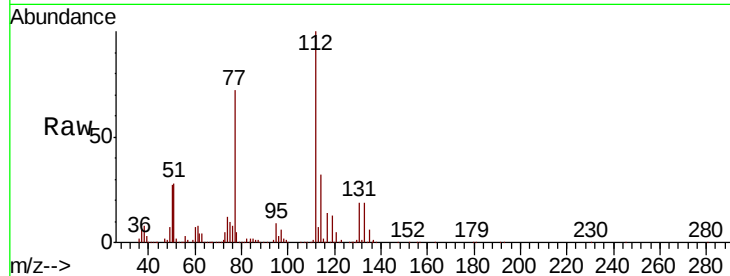
77 71.9 56.1 84.1

114 32.1 27.8 34.0

Manual Integrations
APPROVED

MMDadoda

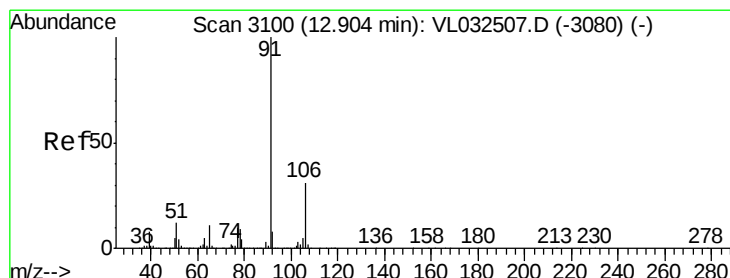
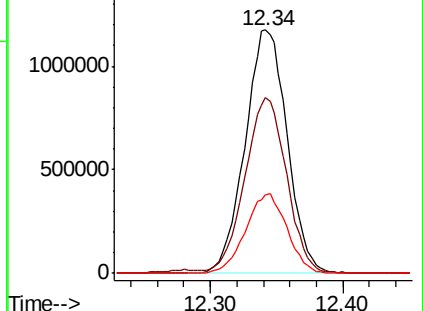
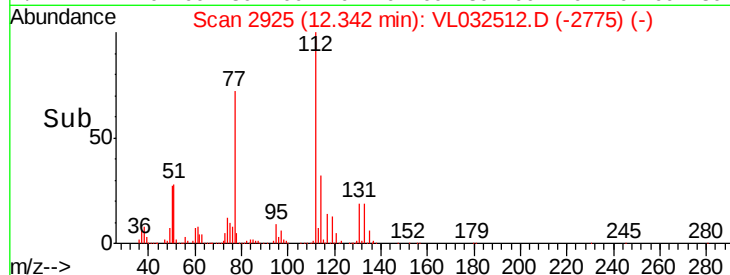
9/24/2018 11:20:00 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.115 ppbv

RT: 12.90 min Scan# 3100

Delta R.T. -0.02 min

Lab File: VL032512.D

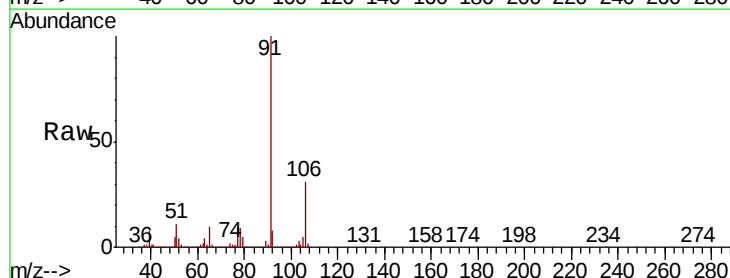
Acq: 20 Sep 2018 18:22

Tgt Ion: 91 Resp: 4827528

Ion Ratio Lower Upper

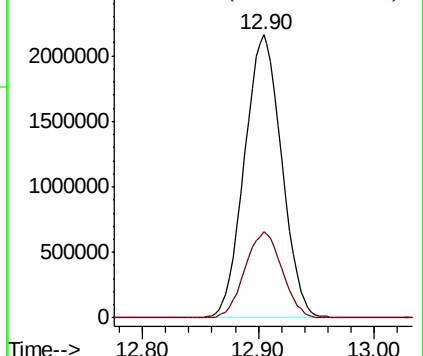
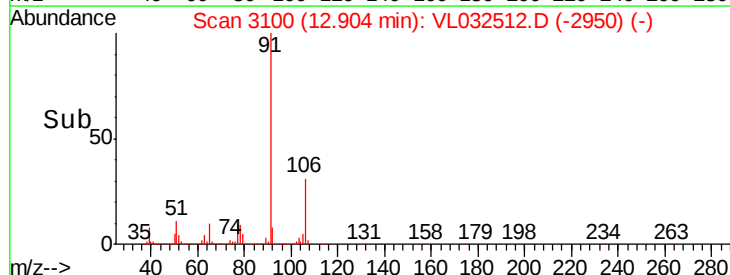
91 100

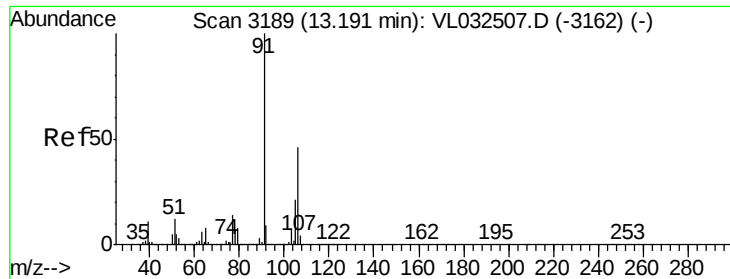
106 30.5 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





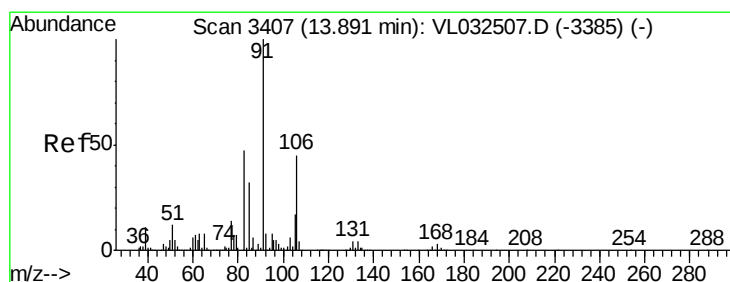
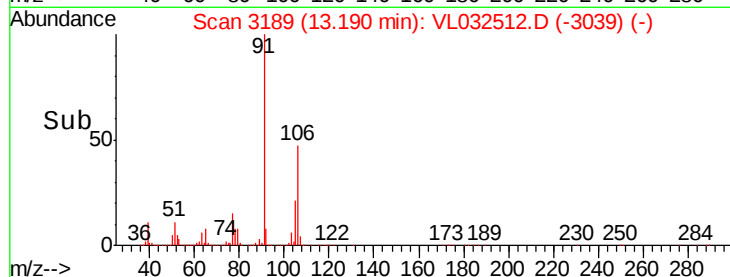
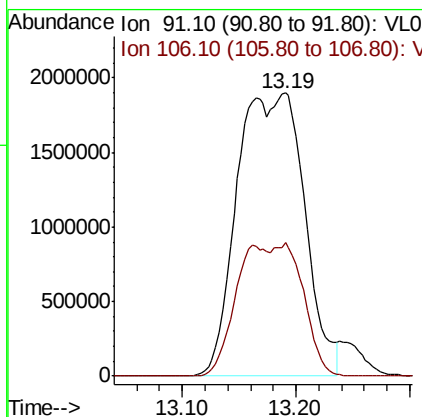
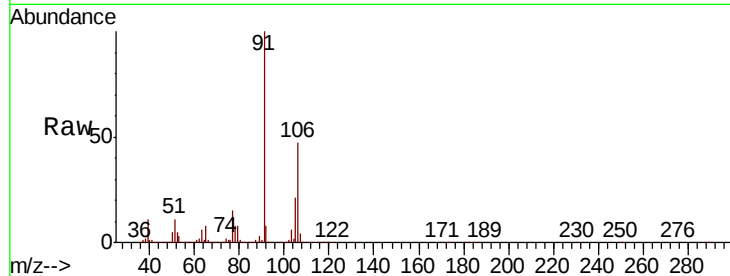
#59
m/p-Xylene
Concen: 20.107 ppbv m
RT: 13.19 min Scan# 3189
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7785760
Ion Ratio Lower Upper
91 100
106 45.6 36.6 55.0

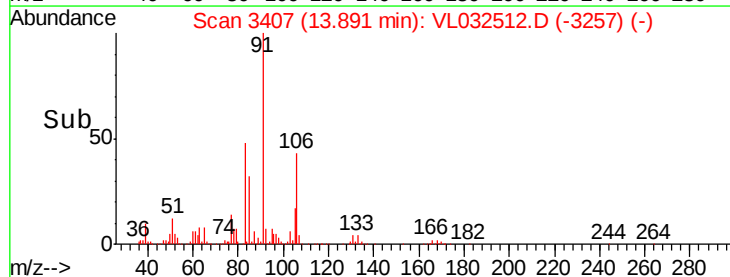
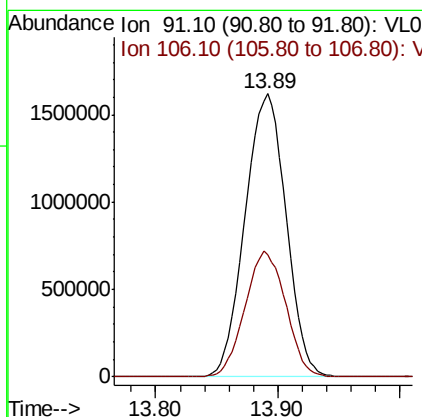
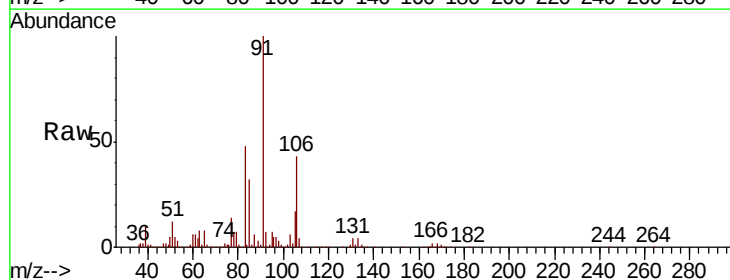
Manual Integrations
APPROVED

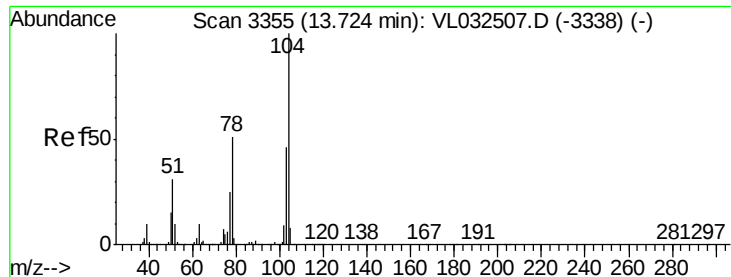
MMDadoda
9/24/2018 11:20:00 AM



#60
o-Xylene
Concen: 9.898 ppbv
RT: 13.89 min Scan# 3407
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion: 91 Resp: 3764832
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.7





#61

Stvrene

Concen: 11.555 ppbv

RT: 13.72 min Scan# 3355

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2845173

Ion Ratio Lower Upper

104 100

78 52.7 41.8 62.8

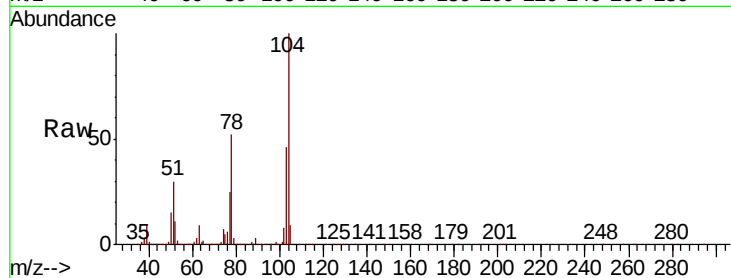
103 47.1 38.0 57.0

Manual Integrations

APPROVED

MMDadoda

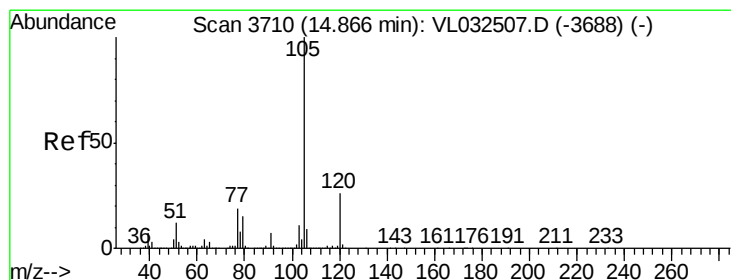
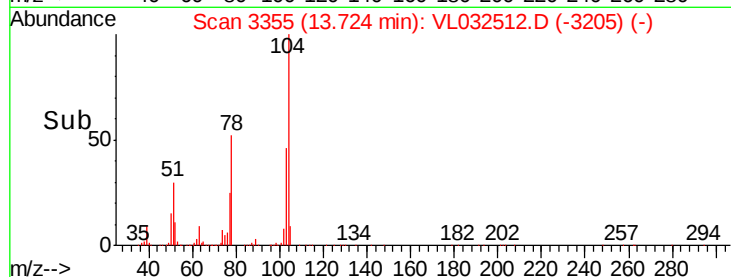
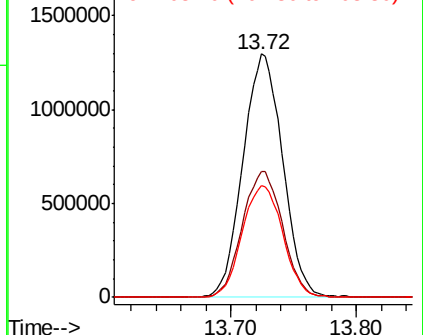
9/24/2018 11:20:00 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.001 ppbv

RT: 14.87 min Scan# 3710

Delta R.T. -0.02 min

Lab File: VL032512.D

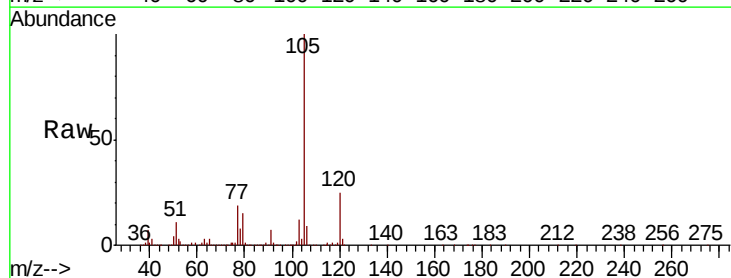
Acq: 20 Sep 2018 18:22

Tgt Ion:105 Resp: 5347442

Ion Ratio Lower Upper

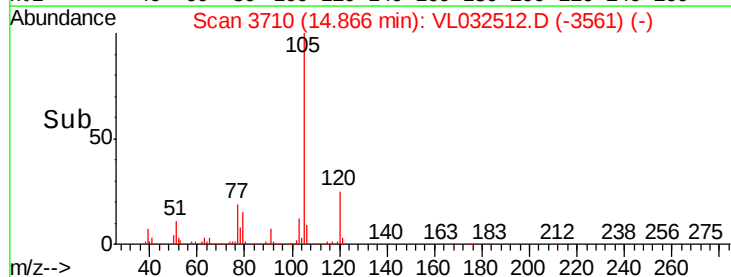
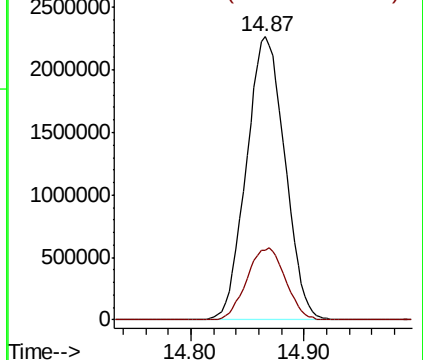
105 100

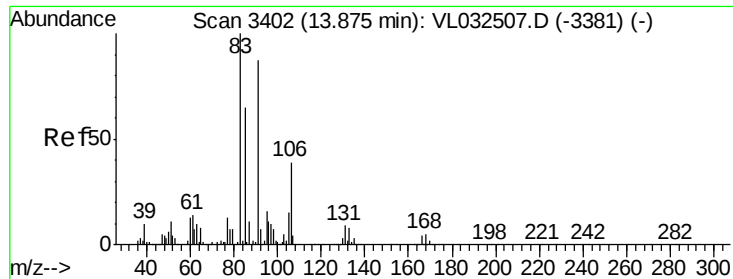
120 25.6 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





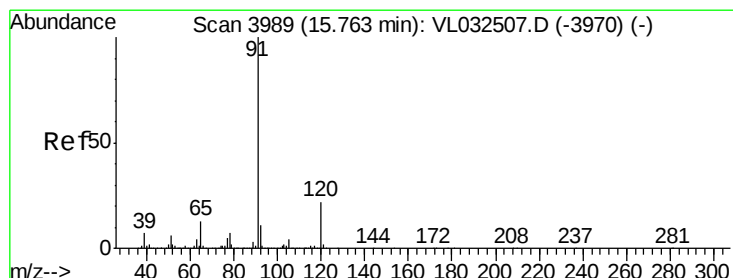
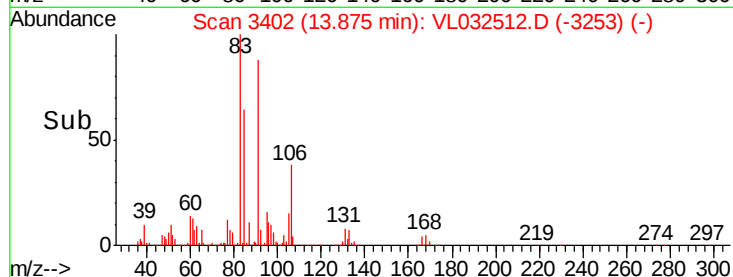
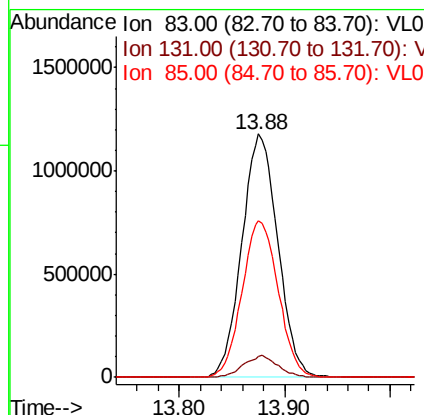
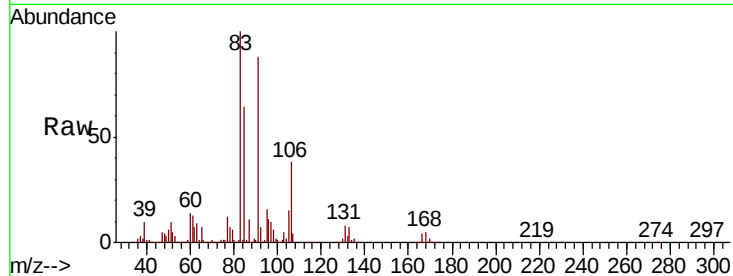
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.222 ppbv
 RT: 13.88 min Scan# 3402
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2795980
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.3	12.8
85	64.9	32.3	96.8

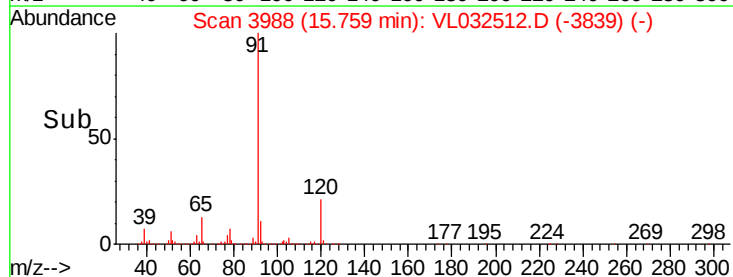
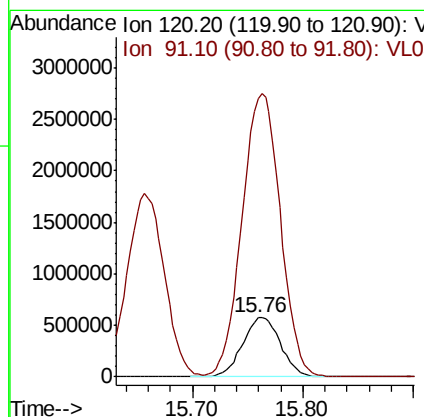
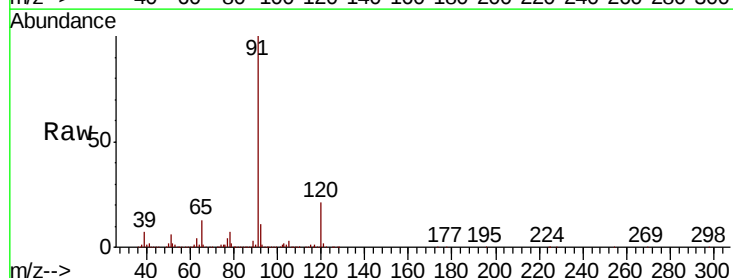
Manual Integrations
 APPROVED

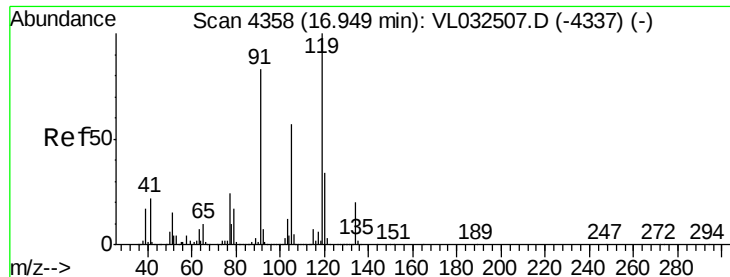
MMDadoda
 9/24/2018 11:20:00 AM



#64
 n-propylbenzene
 Concen: 9.756 ppbv
 RT: 15.76 min Scan# 3988
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	120	Resp	1363653
Ion Ratio	Lower	Upper	
120	100		
91	486.2	381.8	572.6





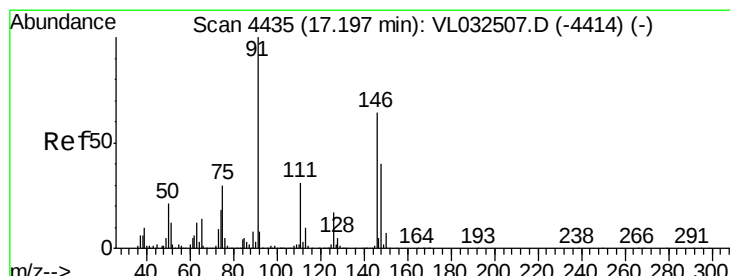
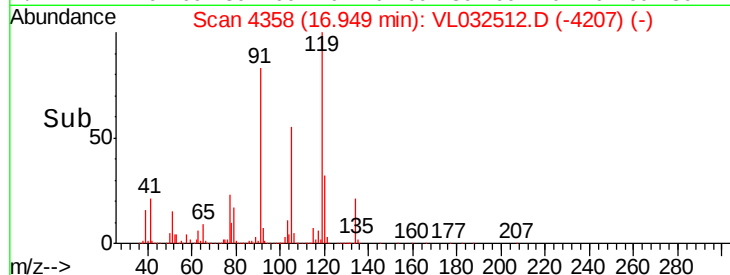
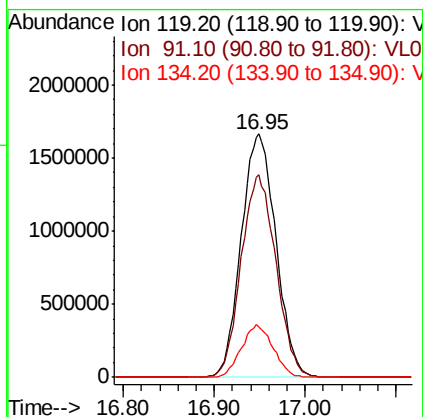
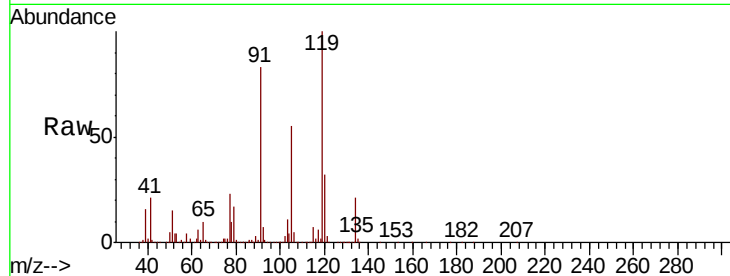
#65
tert-Butylbenzene
Concen: 9.559 ppbv
RT: 16.95 min Scan# 4358
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 4404225
Ion Ratio Lower Upper
119 100
91 83.3 66.5 99.7
134 19.8 16.0 24.0

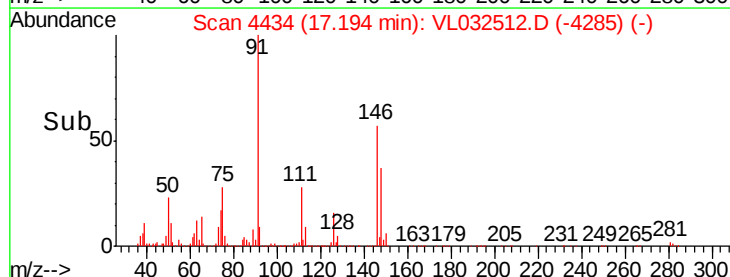
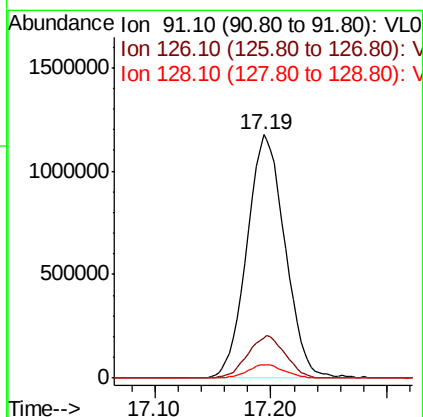
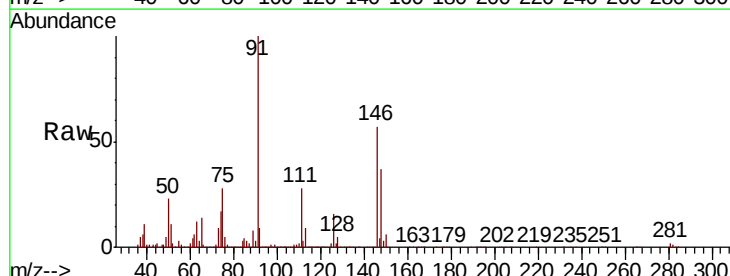
Manual Integrations
APPROVED

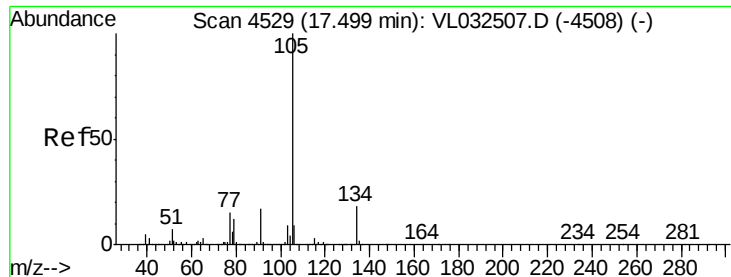
MMDadoda
9/24/2018 11:20:00 AM



#66
Benzyl Chloride
Concen: 10.435 ppbv
RT: 17.19 min Scan# 4434
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion: 91 Resp: 2678275
Ion Ratio Lower Upper
91 100
126 17.4 13.8 20.8
128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.379 ppbv

RT: 17.50 min Scan# 4529

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6498771

Ion Ratio Lower Upper

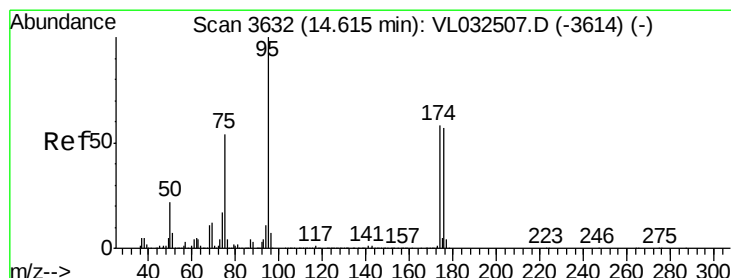
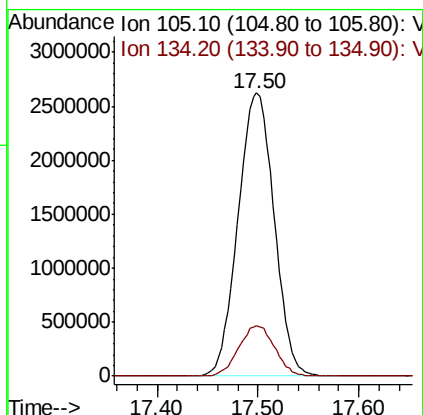
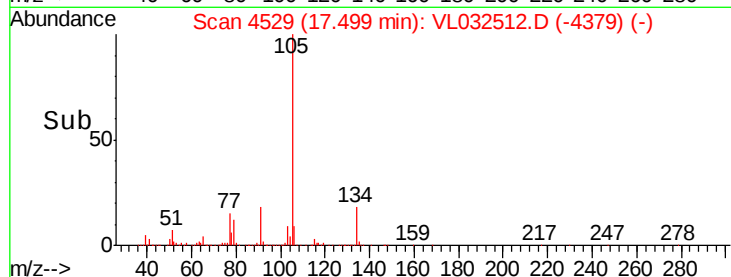
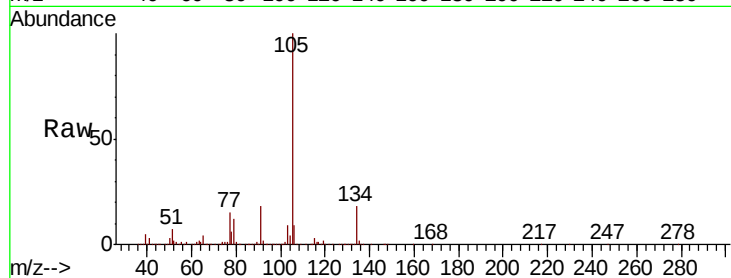
105 100

134 17.8 14.4 21.6

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.215 ppbv

RT: 14.61 min Scan# 3632

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

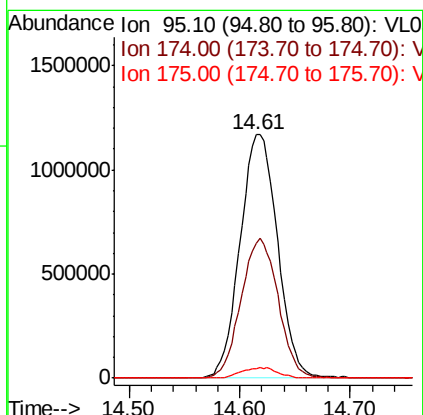
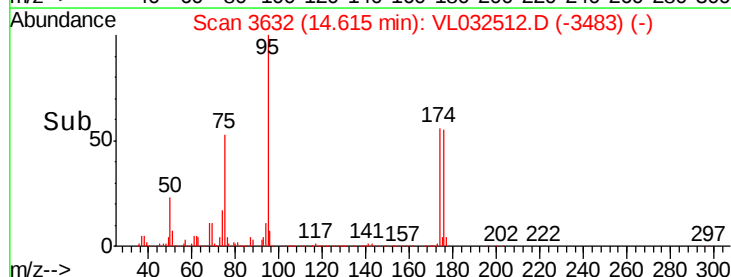
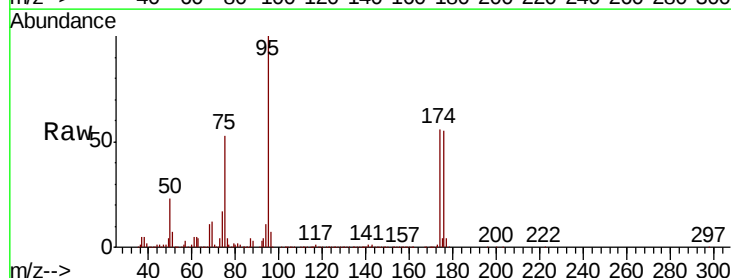
Tgt Ion: 95 Resp: 2752289

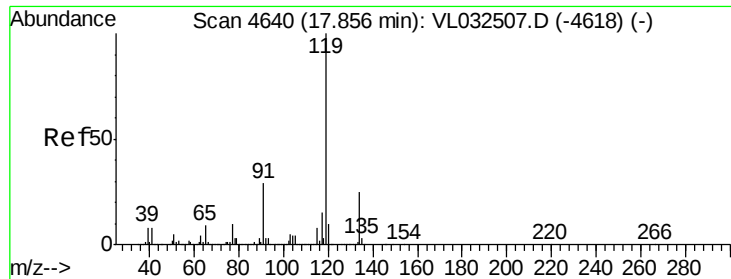
Ion Ratio Lower Upper

95 100

174 57.4 46.3 69.5

175 4.3 3.4 5.0





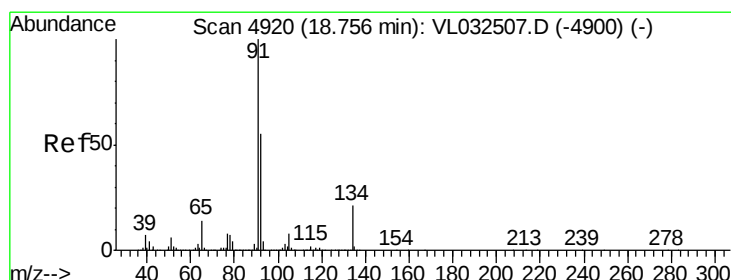
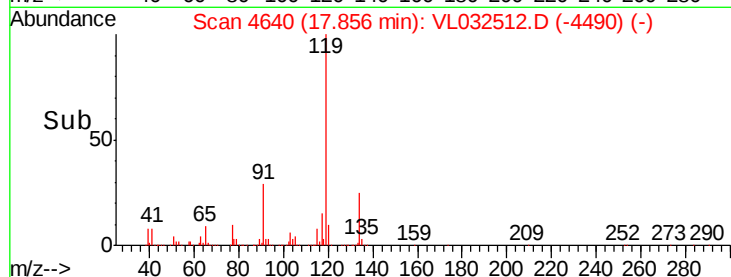
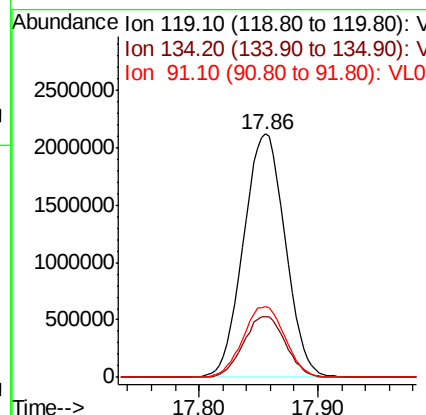
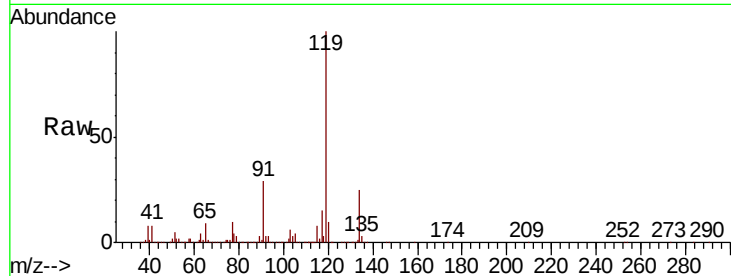
#69
 p-Isopropyltoluene
 Concen: 9.591 ppbv
 RT: 17.86 min Scan# 4640
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.4	30.6
91	29.3	23.4	35.2

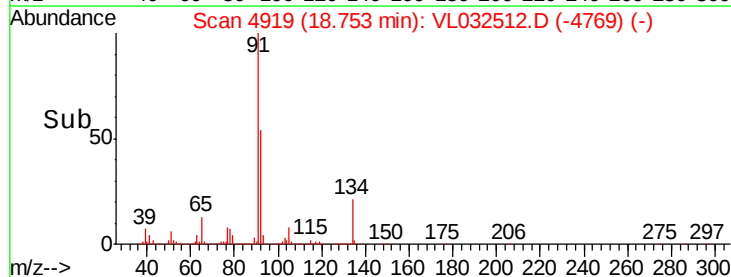
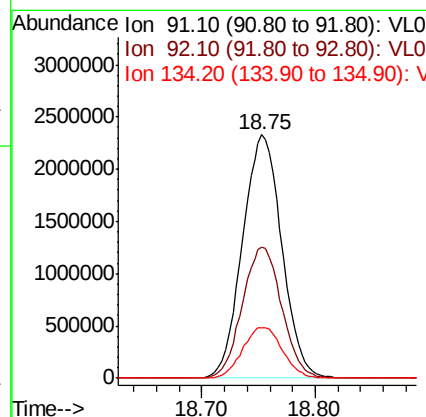
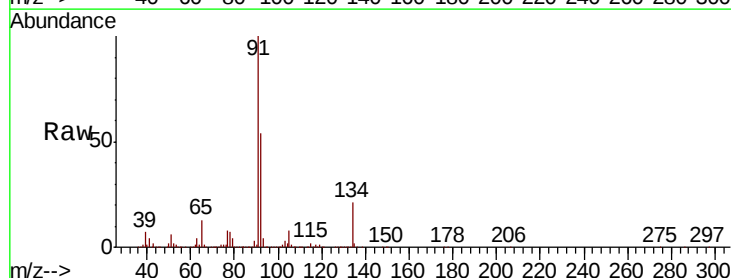
Manual Integrations
 APPROVED

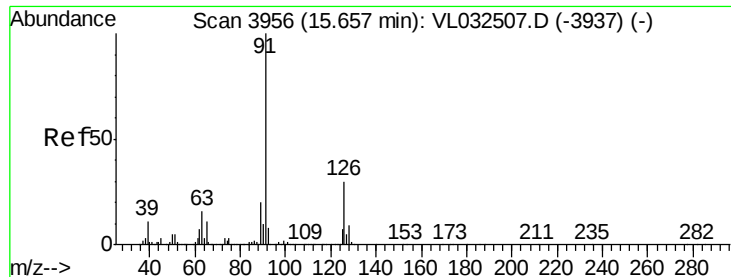
MMDadoda
 9/24/2018 11:20:00 AM



#70
 n-Butylbenzene
 Concen: 9.179 ppbv
 RT: 18.75 min Scan# 4919
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.8	65.8
134	21.3	17.4	26.0





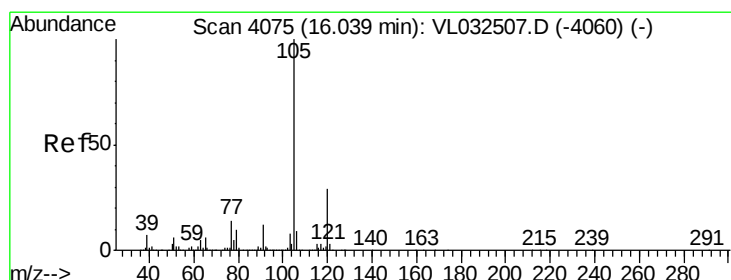
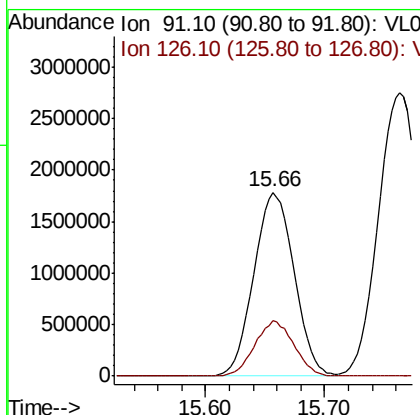
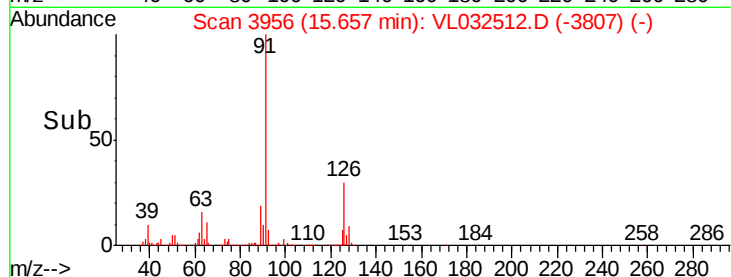
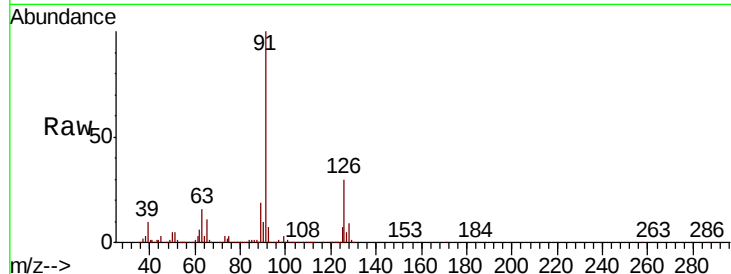
#71
 2-Chlorotoluene
 Concen: 10.237 ppbv
 RT: 15.66 min Scan# 3956
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 4181525
 Ion Ratio Lower Upper
 91 100
 126 29.2 11.9 47.7

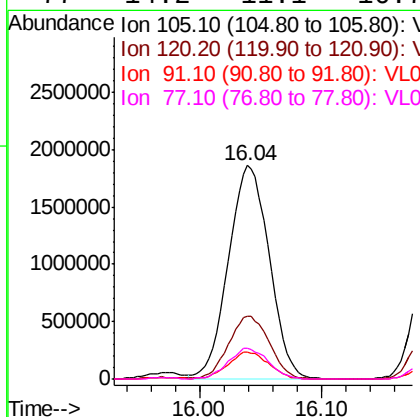
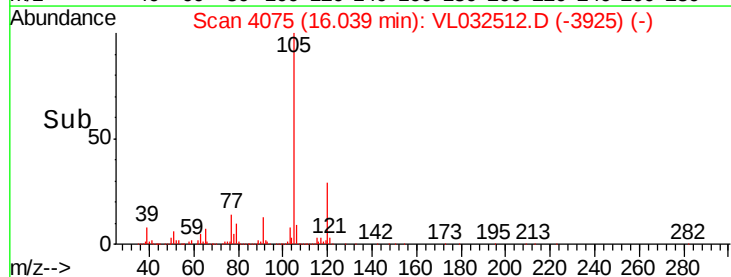
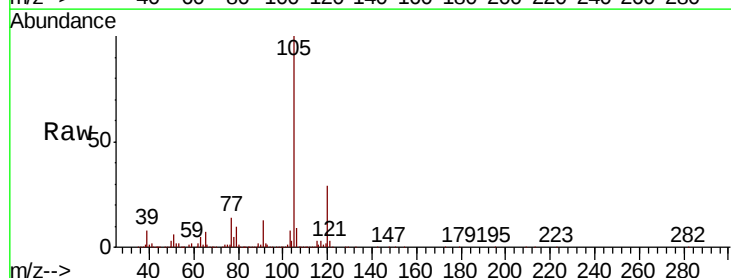
Manual Integrations
 APPROVED

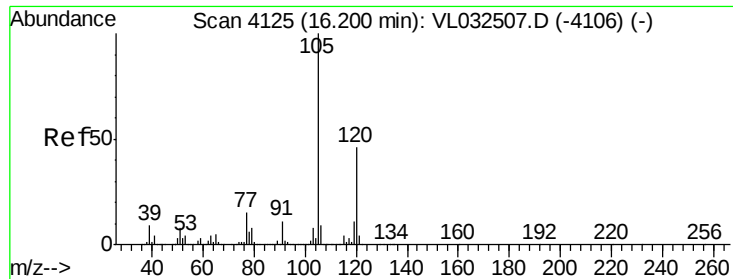
MMDadoda
 9/24/2018 11:20:00 AM



#72
 4-Ethyltoluene
 Concen: 10.382 ppbv
 RT: 16.04 min Scan# 4075
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion:105 Resp: 4311167
 Ion Ratio Lower Upper
 105 100
 120 29.4 23.5 35.3
 91 12.5 10.2 15.2
 77 14.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.845 ppbv

RT: 16.20 min Scan# 4125

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4095785

Ion Ratio Lower Upper

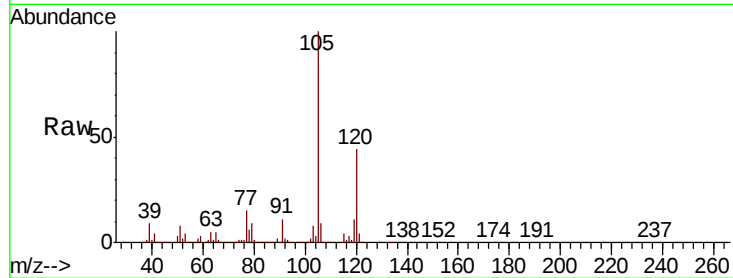
105 100

120 44.4 37.9 56.9

Manual Integrations
APPROVED

MMDadoda

9/24/2018 11:20:00 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

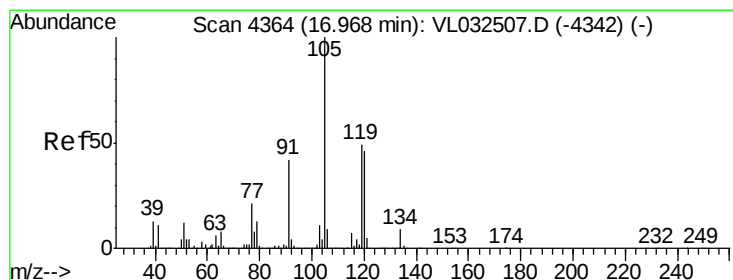
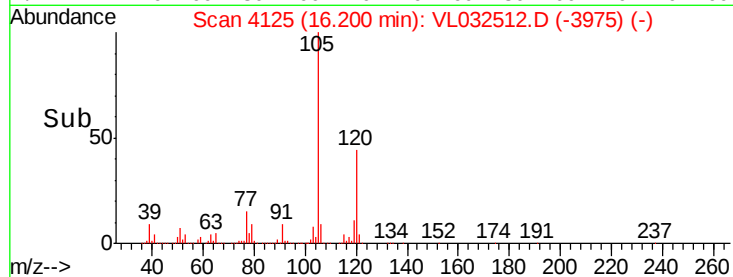
1000000

500000

0

16.10 16.20 16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.939 ppbv

RT: 16.97 min Scan# 4363

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Tgt Ion:105 Resp: 4065751

Ion Ratio Lower Upper

105 100

120 47.0 37.8 56.8

91 51.2 41.4 62.0

77 22.2 18.6 28.0

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

1500000

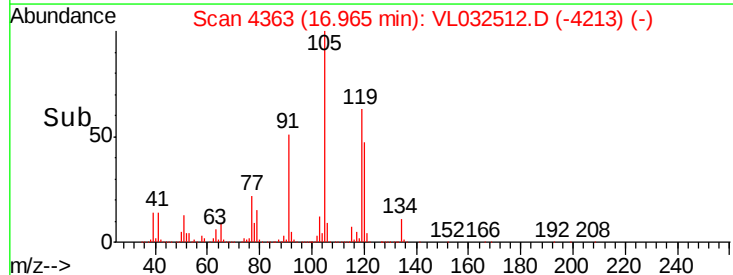
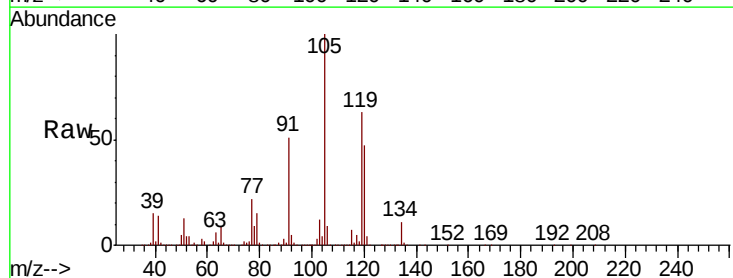
1000000

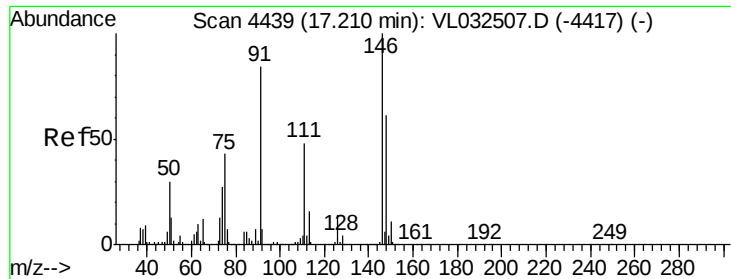
500000

0

16.90 16.97 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.313 ppbv

RT: 17.21 min Scan# 4438

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2243575

Ion Ratio Lower Upper

146 100

111 48.3 24.5 73.5

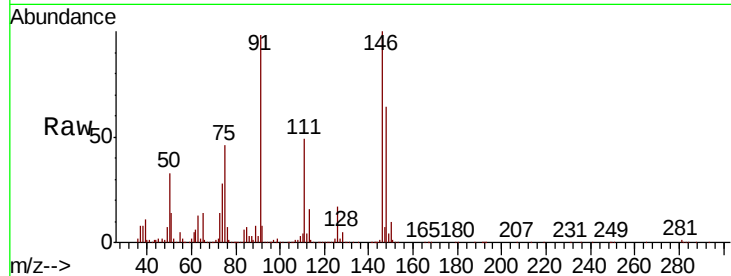
148 63.5 32.0 96.2

Manual Integrations

APPROVED

MMDadoda

9/24/2018 11:20:00 AM

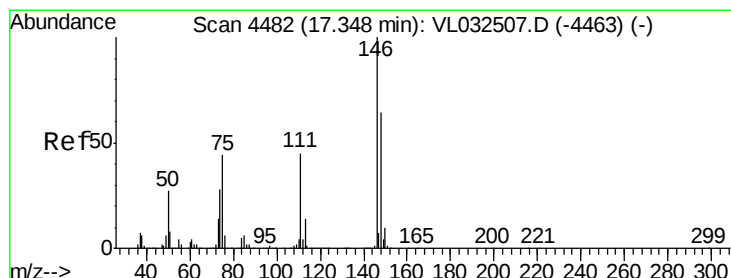
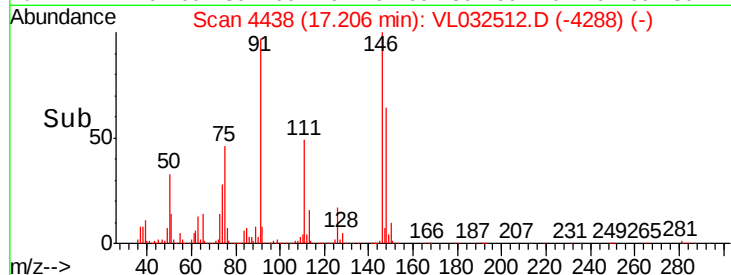
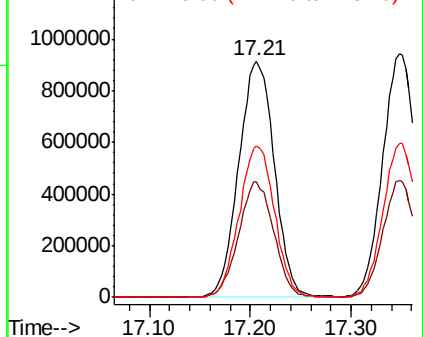


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.866 ppbv

RT: 17.35 min Scan# 4482

Delta R.T. -0.02 min

Lab File: VL032512.D

Acq: 20 Sep 2018 18:22

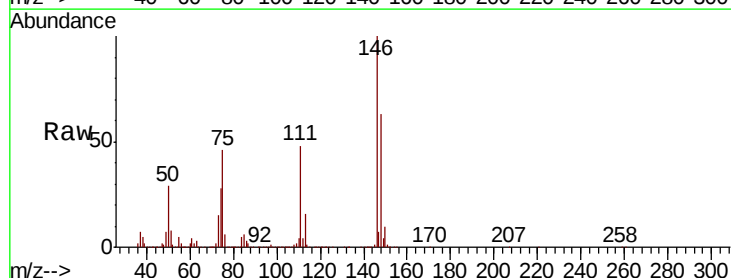
Tgt Ion:146 Resp: 2220005

Ion Ratio Lower Upper

146 100

111 47.4 23.4 70.2

148 63.8 32.0 96.2

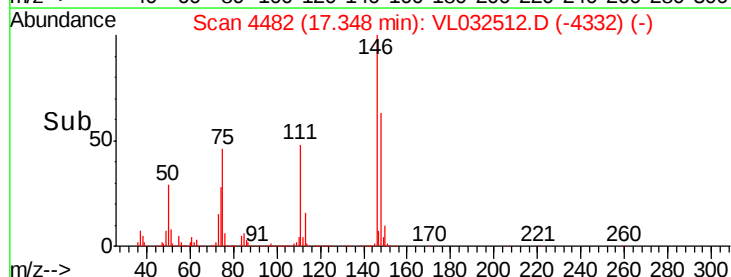
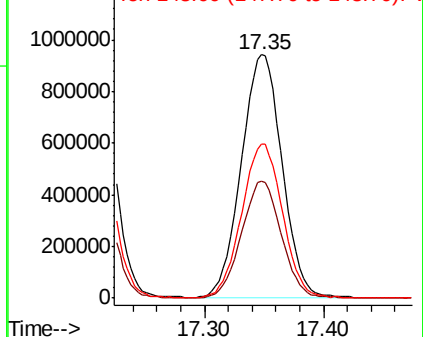


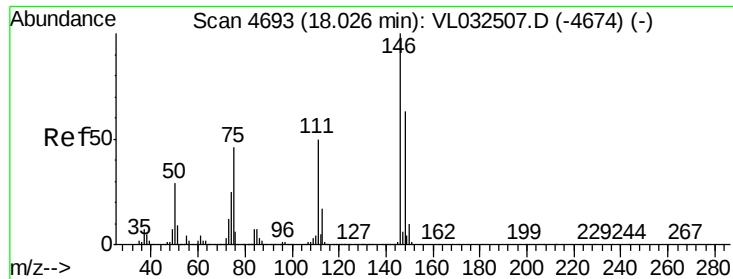
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





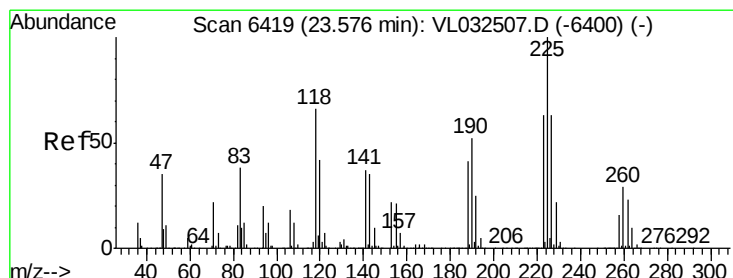
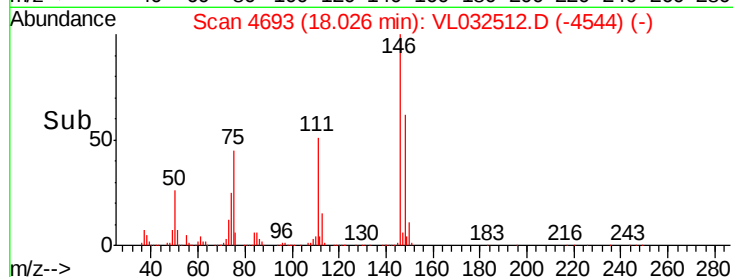
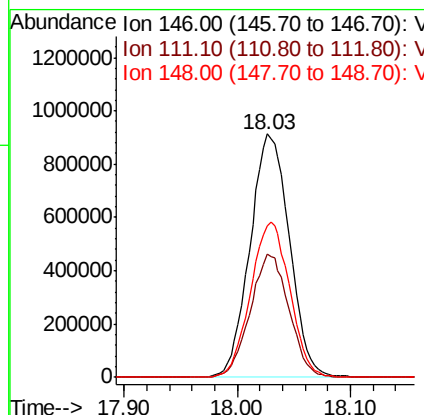
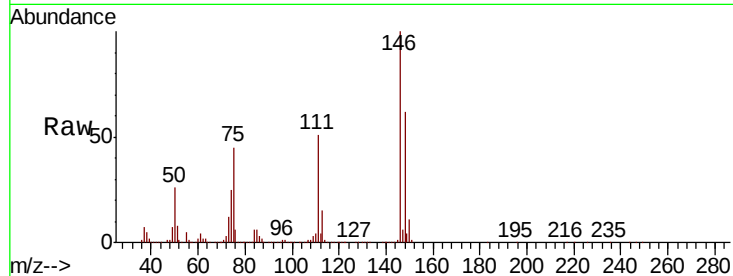
#77
 1,2-Dichlorobenzene
 Concen: 8.487 ppbv
 RT: 18.03 min Scan# 4693
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.9	74.8
148	63.7	32.0	96.0

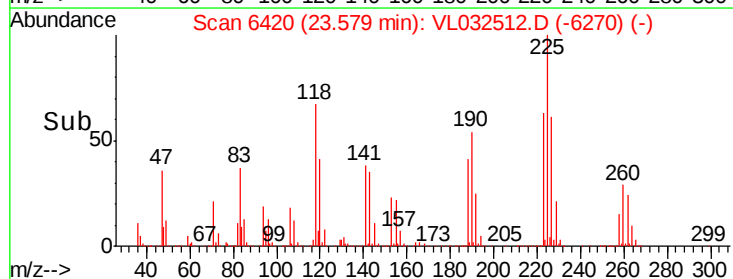
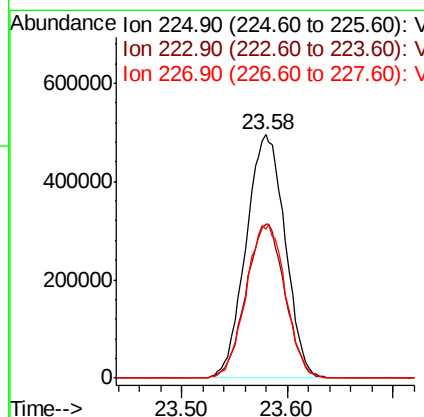
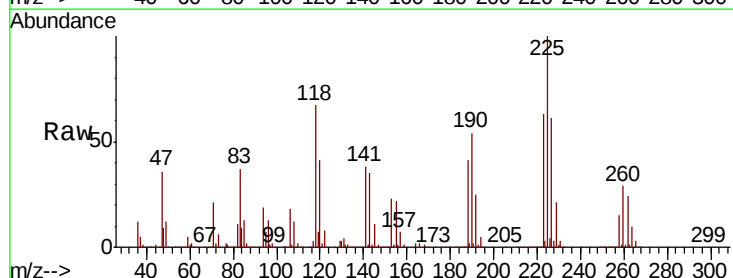
Manual Integrations
 APPROVED

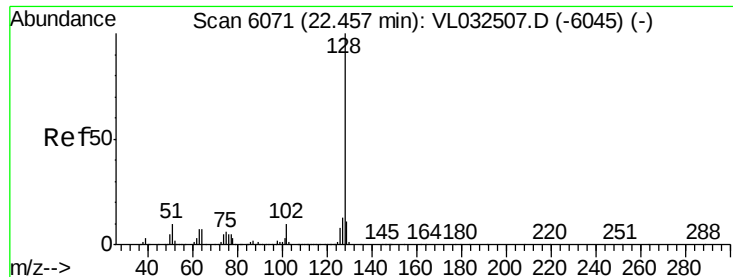
MMDadoda
 9/24/2018 11:20:00 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 13.137 ppbv
 RT: 23.58 min Scan# 6420
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.6	76.0
227	63.5	51.2	76.8





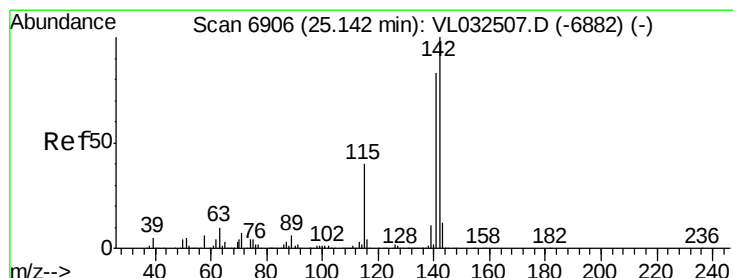
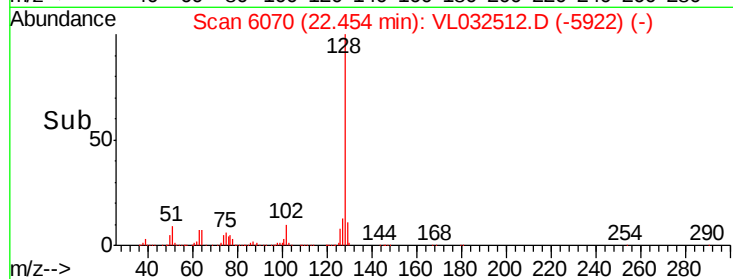
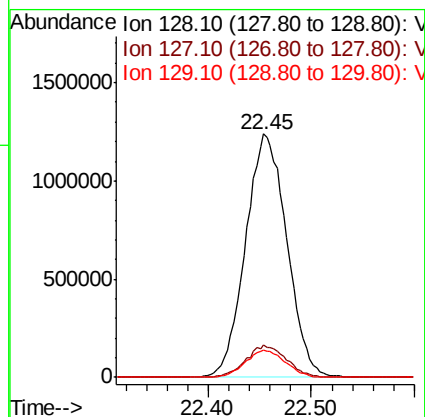
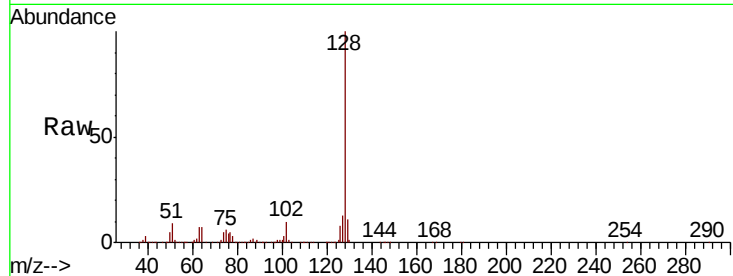
#79
Naphthalene
Concen: 9.300 ppbv
RT: 22.45 min Scan# 6070
Delta R.T. -0.02 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	128	Resp:	3439607
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.2	8.5	12.7

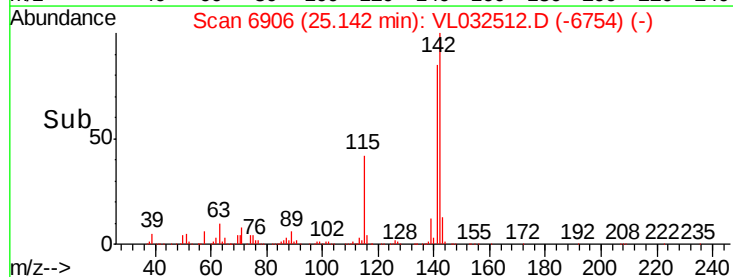
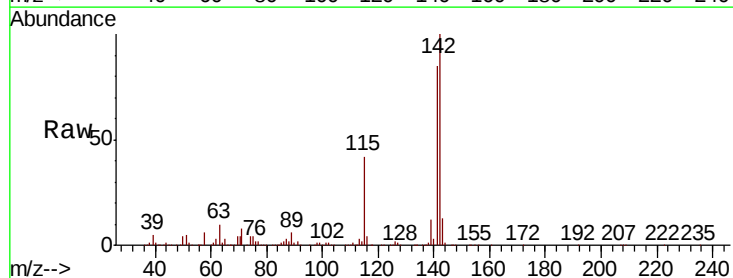
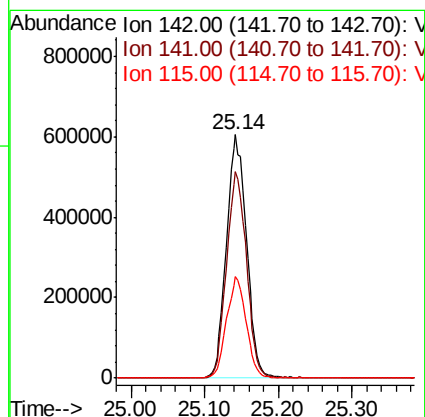
Manual Integrations
APPROVED

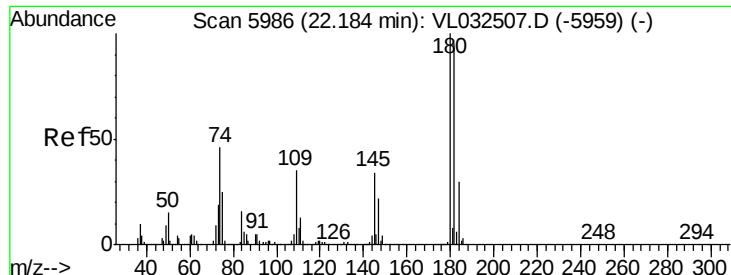
MMDadoda
9/24/2018 11:20:00 AM



#80
Naphthalene, 2-methyl-
Concen: 11.703 ppbv
RT: 25.14 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL032512.D
Acq: 20 Sep 2018 18:22

Tgt Ion:	142	Resp:	1151697
Ion	Ratio	Lower	Upper
142	100		
141	83.8	67.0	100.6
115	40.5	31.3	46.9





#81
 1,2,4-Trichlorobenzene
 Concen: 8.748 ppbv m
 RT: 22.18 min Scan# 5986
 Delta R.T. -0.02 min
 Lab File: VL032512.D
 Acq: 20 Sep 2018 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.1	114.1#
184	0.0	23.8	35.8#

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 11:20:00 AM

